Liron®

CAPACITOR PRODUCT MANUAL



SHENZHEN LIRON ELECTRONICS CO.,LTD.

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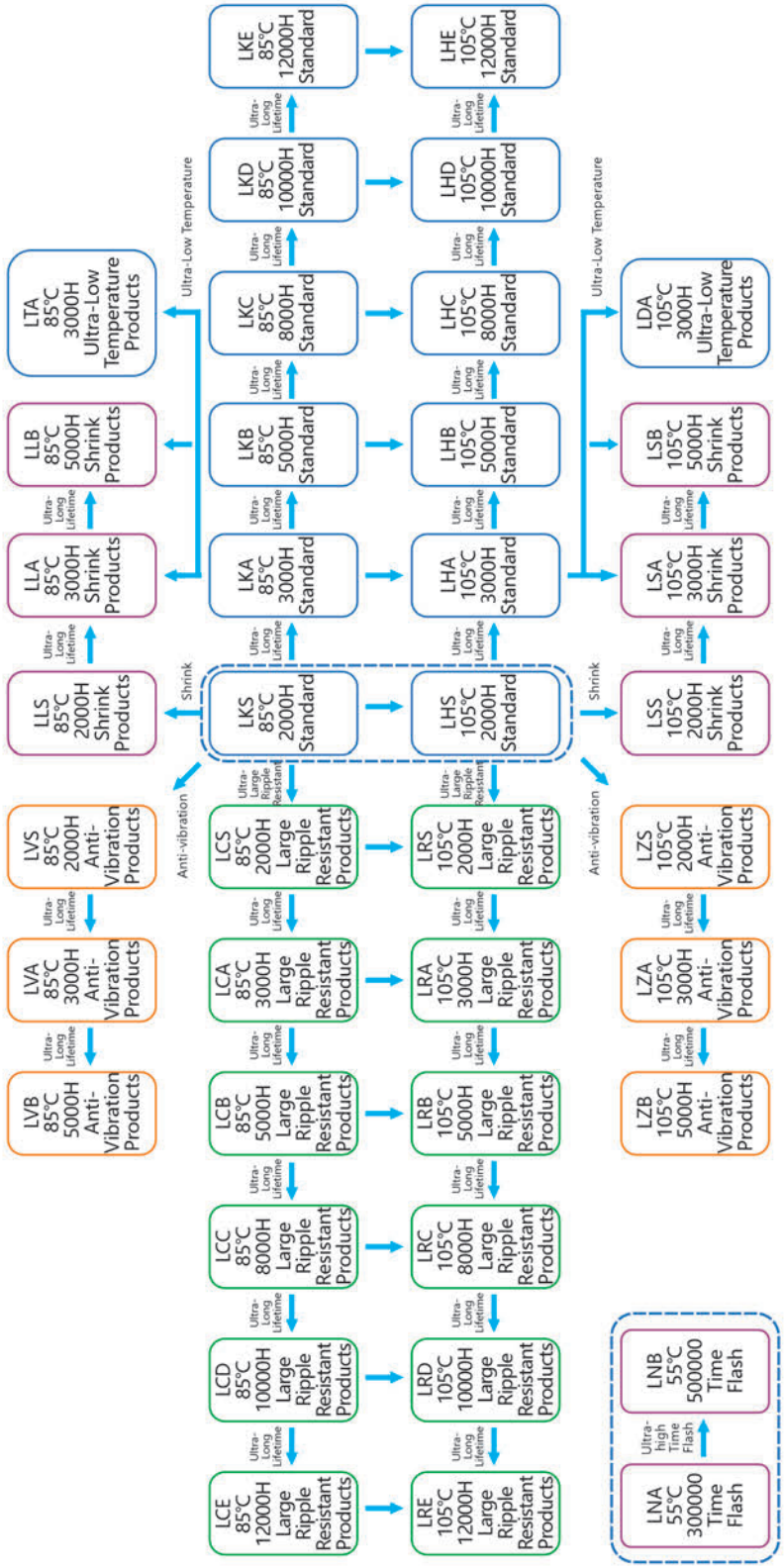
1、Product catalog list

Product	Series	Rated temperature	Rated lifetime	Terminal	Standard	Miniaturization	High reliability	Page
Snap in capacitor	LKS	-25、-40～85℃ Standard	2,000H	Snap in	■			28
	LKA		3,000H	Snap in	■			33
	LKB		5,000H	Snap in	■		□	38
	LKC		8,000H	Snap in	■		□	41
	LKD		10,000H	Snap in	■		□	44
	LKE		12,000H	Snap in	■		□	47
	LHS	-25、-40～105℃ Standard	2,000H	Snap in	■			50
	LHA		3,000H	Snap in	■			55
	LHB		5,000H	Snap in	■		□	58
	LHC		8,000H	Snap in	■		□	62
	LHD		10,000H	Snap in	■		□	66
	LHE		12,000H	Snap in	■		□	70
	LLS	-25、-40～85℃ Miniaturization	2,000H	Snap in		■		74
	LLA		3,000H	Snap in		■		80
	LLB		5,000H	Snap in		■		86
	LSS	-25、-40～105℃ Miniaturization	2,000H	Snap in		■		92
	LSA		3000H	Snap in		■		94
	LSB		5000H	Snap in		■		99
	LTA	-40～85℃ 500V Low temperature	3,000H	Snap in	■			105
	LDA	-40～105℃ 500V Low temperature	3,000H	Snap in	■			107
	LCS	-25、-40～85℃ High ripple current	2,000H	Snap in			□	109
	LCA		3,000H	Snap in			□	112
	LCB		5,000H	Snap in			□	115
	LCC		8,000H	Snap in			□	118
	LCD		10,000H	Snap in			□	121
	LCE		12,000H	Snap in			□	124
	LRS	-25、-40～105℃ High ripple current	2,000H	Snap in			□	127
	LRA		3,000H	Snap in			□	130
	LRB		5,000H	Snap in			□	133
	LRC		8,000H	Snap in			□	137
	LRD		10,000H	Snap in			□	141
	LRE		12,000H	Snap in			□	145
	LNA	-25～55℃ For flash	300,000 Times	Snap in	■			149
	LNB	-25～55℃ For flash	500,000 Times	Snap in	■			151
	LVS	-25、-40～85℃ Anti-vibration	2,000H	Snap in	■			153
	LVA		3,000H	Snap in	■			158
	LVB		5,000H	Snap in	■			163
	LZS	-25、-40～105℃ Anti-vibration	2,000H	Snap in	■			166
	LZA		3,000H	Snap in	■			171
	LZB		5,000H	Snap in	■			176

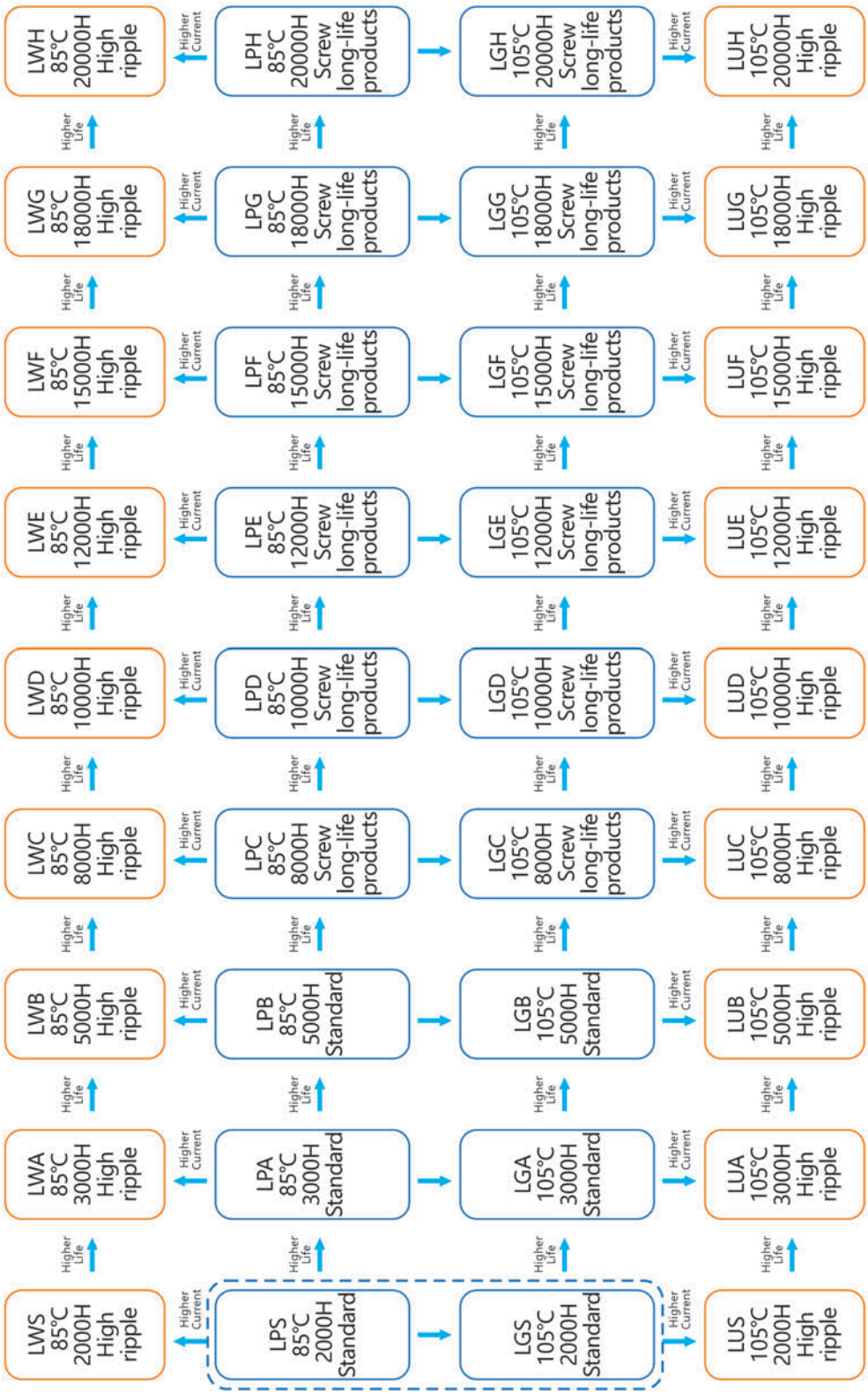
2、Product catalog list

Product	Series	Rated temperature	Rated lifetime	Terminal	Standard	Miniaturization	High reliability	Page
Screw capacitor	LPS	-25、-40～85℃ Standard	2,000H	Screw	■			180
	LPA		3,000H	Screw	■			187
	LPB		5,000H	Screw	■		□	194
	LPC		8,000H	Screw	■		□	196
	LPD		10,000H	Screw	■		□	198
	LPE		12,000H	Screw	■		□	200
	LPF		15,000H	Screw	■		□	202
	LPG		18,000H	Screw	■		□	204
	LPH		20,000H	Screw	■		□	206
	LGS	-25、-40～105℃ Standard	2,000H	Screw	■			208
	LGA		3,000H	Screw	■			211
	LGB		5,000H	Screw	■		□	214
	LGC		8,000H	Screw	■		□	217
	LGD		10,000H	Screw	■		□	220
	LGE		12,000H	Screw	■		□	223
	LGF		15,000H	Screw	■		□	225
	LGG		18,000H	Screw	■		□	227
	LGH		20,000H	Screw	■		□	229
	LWS	-25、-40～85℃ High ripple current	2,000H	Screw			□	231
	LWA		3,000H	Screw			□	236
	LWB		5,000H	Screw			□	241
	LWC		8,000H	Screw			□	243
	LWD		10,000H	Screw			□	245
	LWE		12,000H	Screw			□	247
	LWF		15,000H	Screw			□	249
	LWG		18,000H	Screw			□	251
	LWH		20,000H	Screw			□	253
	LUS	-25、-40～105℃ High ripple current	2,000H	Screw			□	255
	LUA		3,000H	Screw			□	258
	LUB		5,000H	Screw			□	261
	LUC		8,000H	Screw			□	263
	LUD		10,000H	Screw			□	266
	LUE		12,000H	Screw			□	268
	LUF		15,000H	Screw			□	270
	LUG		18,000H	Screw			□	272
	LUH		20,000H	Screw			□	274

3、System Diagram for Snap in and Lug Auminum Electrolytic Capacitors



4、System Diagram for Screw Aluminum Electrolytic Capacitors



5、Technical NOTES

1.General Description of Aluminum Electrolytic Capacitors

1-1.Principle of Capacitor Construction

The principle construction of a parallel plate capacitor isshown in Fig.1.

When avoltage V is applied between the conductingelectrodes placed opposite to each other, a certain amountQ of electric charge proportional to the voltage can bestored on the surfaces of the dielectric. The proportionalconstant is called capacitance C, designating the ability of acapacifor to store energy in an electric field.

Q=C.V
Q: Chargel(C)
V: Voltage (V)
C:Capacitance (F)

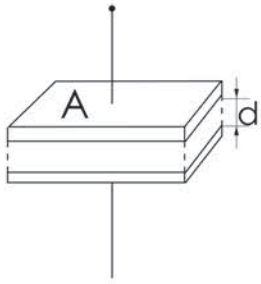


Fig.1

The capacitance C of capacitor can be expressed by thefollowing equation:

$$C=\varepsilon_0 \cdot E \cdot A/d$$

E:dielectric constant

ε_0:dielectric constant in vacuum(= 8.85×10^{-12} F/m)

A:electrode area[m^2]

d:electrode distance [m]

The dielectric constant of an aluminum oxide layer is 7 to 8.Larger capacitances can be obtained by enlarging theelectrode area A or by reducing the distance d.

Table I shows the dielectric constants of typical dielectricsused in capacitors.In many cases, capacitor names arerelated to their dielectric material used,for example,aluminum electrolytic capacitor, tantalum capacitor, etc.

Table 1

Dielectric	Dielectric Constant	Dielectric	Dielectric Constant
Aluminum oxide film	7 to 8	Porcelain(ceramic)	10 to 120
Mylar	3.2	Polypropylene	2.2
Mica	6 to 8	Tantalum oxide film	10 to 20

Aluminum electrolytic capacitors offer large volumetriccapacitance values,because the anode electrode'ssurface is roughened by electrochemical etching, enlargingits area by factor of 20~100 compared to plain foil, and alsobecause the dielectric layer is very thin (1.4 nm/V).

The schematic cross section of an aluminum electrolyticcapacitor is shown in Fig.2

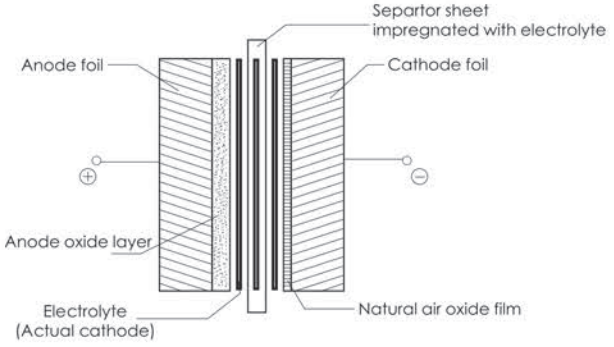


Fig. 2

1-2 Equivalent Circuit of the Capacitor

The electrical equivalent circuit of the aluminum electrolyticcapacitor is given in Fig.3

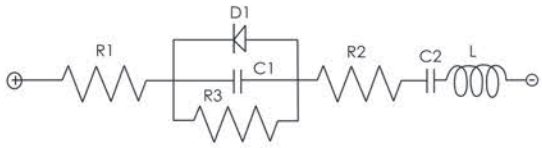
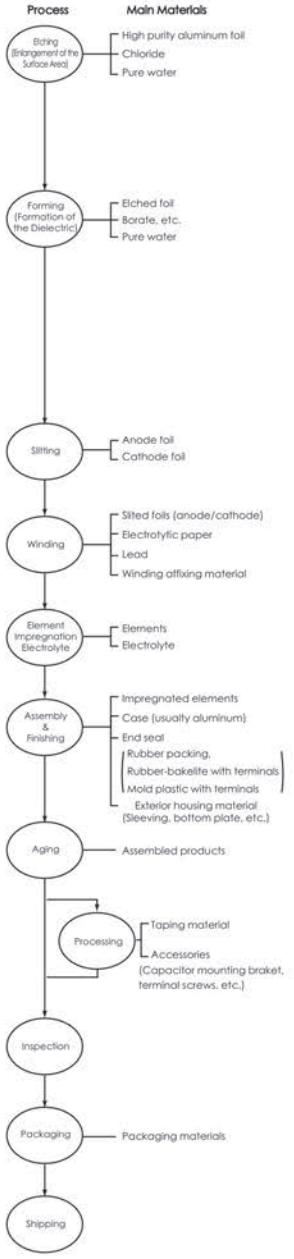


Fig. 3

R1: Resistance of terminal and electrode
R2: Resistance of anode oxide layer and electrolyte
R3:Insulation resistance because of defective anodic oxidelayer
D1:Oxide semiconductor of anode foil
C1: Capacitance of anode foil
C2: Capacitance of cathode foil
L:inductance caused by terminals, electrodes, etc.

1-3 Manufacturing process of aluminum electrolytic capacitors



Content

A 0.05~0.11 mm thick anode foil and a 0.02~0.05 mm thick cathode foil are continuously etched electrochemically in a chloride solution with an AC or DC current.This enlarges the effective surface area of the aluminum foils to attain smaller capacitor sizes.

This process builds the aluminum oxide (Al203) layer that becomes the capacitor's dielectric.
A high purity etched aluminum foil is anodized in a(for example)solution made of water, boric acid.and ammonium,to form an aluminum oxide layer on the surface of the anode foil. For the cathode foil,a low DC voltage is sometimes used for for mation,but sometimes no formation is done at all.

A foil is slited into specified widths according to capacitor case sizes.

Anode and cathode foilsinterleaved with an electrolytic paper are wound into a cylindrical capacitor element,with aluminum tabs being connected to both foils.

Elements are impregnated with liquid electrolyte.

The impregnated element.case and end seal are assembled.

DC voltage is applied under high temperature conditions to reform the oxide layer.

Depending on customer specification, the lead cutting,forming and taping areprocessed. Accessories,such as mounfingpracket,are atached.

A 100% inspection based on the specification standards and test requirements is performed fo guarantee the quality of products.

1-4 Basic parameters and terms

1-4-1 Capacitance

The capacitance of the dielectric portion of the anode aluminum foil can be calculated with the following formula :

$$Ca = 8.855 \times 10^{-8} \frac{\varepsilon \cdot A}{d} \quad (uF)$$

The cathode foil capacitance Cc depends on the dielectricproperties of the oxide layer which was either deposited by aforming voltage or which grew naturally during storage(typically, the voltage proof of the cathode oxide layer is 1V orless). According to the construction of aluminum electrolyticcapacitors, Ca and Cc are connected in series. Therefore, thetotal capacitance can be determined by the followingformula:

$$C = \frac{Ca \times Cc}{Ca + Cc}$$

The standard capacitance tolerance is 20%(M); however,capacitors with a capacitance tolerance of 10%(K), etc. are also manufactured for special usage. The capacitance of aluminum electrolytic capacitors changes with temperature and frequency of measurement, so the standard has been set to a frequency of 120Hz and temperature of 20℃

1-4-2 Dissipation factor(Tanδ)

The Tanδ is the ratio of the resistive component (REsR) tothe capacitive reactance 1/C)in the equivalent series circuit.

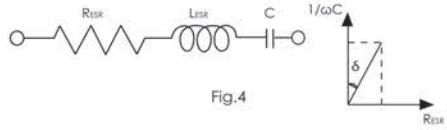


Fig.4

Tan δ = RESR/ (1/ωC)= ωC RESR
where : RESR=ESR at 120Hz
ω = 2πf
f = 120Hz

The Tanδ shows higher values as a measuring frequency increases and a measuring temperature decrease

1-4-3 Equivalent series resistance (ESR)

The equivalent series resistance (ESR) represents all of the ohmic losses of the capacitor. In the equivalent circuit, it is connected in series with the capacitance. The ESR originates from the ohmic resistances of the electrode foils, the electrolyte, the leads and each internal connection.

The ESR declines with increasing temperature, and also declines steadily with increasing frequency at low frequencies

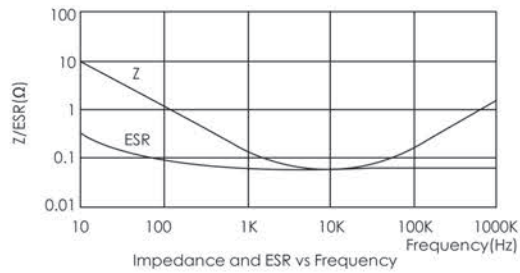
1-4-4 Impedance (z)

The impedance is the resistance which opposes the flow of alternating current at a specific frequency. It is related to capacitance(C)and inductance (L)in terms of capacitive and inductive reactance, and also related to the ESR. It is expressed as follows:

$$Z = \sqrt{ESR^2 + (X_L - X_C)^2}$$

Where: $X_C = 1/\omega C = 1/2\pi fC$
$X_L = \omega L = 2\pi fL$

A typical impedance-versus-frequency curve is shown below.It takes on its minimum value at the self-esonant frequency, and the impedance is equal to the ESR at that frequency.



Impedance and ESR vs Frequency

Fig.5

1-4-5 Leakage current

Leakage Current is the DC current flowing through the capacitor with the rated voltage applied. The value of leakage current depends on the voltage applied, the charging period and capacitor temperature. The leakage current shows higher values as the temperature and voltage increase.

The leakage current value can be decreased by proper selection of materials and production methods; however,cannot be totally eliminated.

The specified leakage current value is measured after the rated voltage of the capacitor is applied at room temperature for a specified time period.

1-4-6 Ripple current

Ripple current is the alternating current flowing through a capacitor. This current causes an internal temperature rise due to power losses in the capacitor. The rated ripple current are specified for an expected temperature rise at rated temperature, under which the capacitor will operate normally during the whole lifetime period.

Generally, the 85℃ type capacitors permit a temperature rise of 10'℃ and have a maximum permitted core temperature of 95℃ . The 105℃ type capacitors permit a temperature rise of5'℃ and have a maximum core temperature of 110℃. Actual maximum permitted core temperatures vary by type and manufacturer.

When operating temperature decreases, the maximum permitted core temperature rises, in the other word, the rated ripple current could be increased when the actual operating temperature is less than the rated temperature. However, too much temperature rise will cause the capacitor to exceed its maximum permitted core temperature of each ambient temperature and fail quickly, operation close to the maximum permitted core temperature wil dramatically shorten expected life. The following shows a guide limit of maximum core temperature rise(ΔT) at each ambient temperature for a 105'maximum rated products.

Table 2

Ambient temperature Ta (℃)	40	55	65	85	105
Guide limit of ΔT (℃)	30	30	25	15	5
Core temperature Ta + ΔT	70	85	90	100	110

In most applications,there is more than one frequency for the ripple current. In this cases, the r.m.s.(root mean square)value of the ripple currents needs to be considered, because currents of all frequencies contribute to the self-heating:

$$Ia=\sqrt{\left(\frac{If1}{Ff1}\right)^2+\left(\frac{If2}{Ff2}\right)^2+\cdots+\left(\frac{Ifn}{Ffn}\right)^2}$$

a:r.m.s.value of the rated ripple currents

f1 ... lfn: r.m.s.values of ripple currents at frequenciesfl...fn

Ff1..... Ffn: correction factor for the current at frequencies fl...fn

$Ffi=\sqrt{\frac{ESR(fo)}{ESR(fi)}}$ wherefo=reference frequency of the nomina

ripple currentThe typical frequency multipliers are shown in the specification.

1-4-7 Rated Voltage

Rated voltage is the maximum peak voltage including ripple voltage that may be applied continuously between the terminals of the capacitor over the specified temperature range. When a ripple current is applied to the capacitor, the sum of the peak ripple voltage and the bias Dc voltage should not exceed the rated voltage,namely

$U_{IP}+U_B\leq U_R$, where: U_{IP}:peak ripple voltage

U_B:bias DC voltage U_R: rated voltage

Capacitors with higher rated voltage could replace the lower rated voltage capacitors as long as case size and electrical perfomances are also compatible.

1-4-8 Recovery Voltage(Dielectric Absorption)

After charging and then discharging aluminum electrolytic capacitors, a voltage between the two terminals will appear after some time. This voltage may reach levels of 15 ~ 25% of the originally applied voltage and it is called recovery voltage.Its existence is related to the phenomenon of dielectric absorption.

Once the recovery voltage is present, sparks may scare the workers during assembly, and low-voltage components (CPU,memory, etc.) may be affected. Measures to prevent this are to discharge the accumulated electric charge by a resistor of about 1000 to 1kΩ before usage, or to ship out the capacitors with short-circuited terminals, e.g. by covering them with an aluminum foil or a conductive plastic cover at the production stage.Please consult us for adequate procedures.

2. To calculate balance resistance when connecting in series

In order to use capacitors at higher voltages than rated voltage it is necessary to connect them in series. Due to differences in leakage currents between individual capacitors,parallel resistors for each capacitor may be required, cf. Fig6

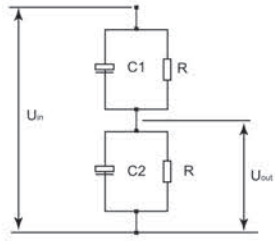


Fig.6

The current IR through the resistor R must be larger than the leakage current in order to control the even split of the voltage.If we suppose the leakage current IL to be 0.003CU(normally it is considerably less than this), and let IR be five times larger than IL, then the value of the balancing resistor R can be calculated by the following equation:

$$R=Uc(5xI_L)=Uc/0.015c\ Uc=1/0.015C$$

(Unit:R--Ω;Uc--V;C--F)

Example: calculation of the value of the balancing resistor in case of connecting two LKS, 400V,330uF capacitors in series.

$$R=1/0.015C=1/(0.015X330X10^{-6})=202K\Omega$$

3.About the Life of an Aluminum electrolytic Capacitor

3-1 Definition and the test conditions of the lifetime

Lifetime is the answer to the question "How long will the capacitor survive in my application?" The end of the lifetime is reached when certain parameters exceed pre-definedthreshold values.t is common practice to allow a certain portion of species to be outside of the limits (outlier percentage).A deviation of certain parameters from pre-defined ranges does not mean a total loss of the capacitor's function, but the design of the application should be done in a way to ensure to function properly even under these unfavorable conditions.

In addition to the more practically oriented "useful life"figure, Lirong also publishes well-defined specifications of"load life"and "endurance"to increase the transparency for the end user. Shelf life test results are also provided to give an indication of the chemical stability of the electrolytic capacitors and to complete the full picture of each capacitor series(Table 3).When comparing lifetime data for capacitors from different manufacturers, please note that ther definitions may apply - even if the same terms are used.

	Useful Life		Load Life	Endurance Test	Shelf Life	
Lifetime	7000h	>200000h	5000h	5000h	1000h	
Leakage Current	Not more than specifiedvalue		Not more thanspecified value	Not more thanspecified value	Not more thanspecified value	
Capacitance Change	Within±30% of initialyalue		Within±20% ofinitial value	Within±20% ofinitial yalue	Within±20% ofinitial value	
Dissipation Factor	Not more than±300% ofspecified value		Not more than±200% of specified value	Not more than±130% of specified value	Not more than±200% of specified value	
Condition Applied Voltage Applied Current Applied Temperature	UR	UR	UR	UR	UR = 0	After test.UR to be applied for 30min,>24h before measurement.
	IR	1.6×IR	IR	IR = 0	IR = 0	
	105℃	40℃	105℃	105℃	105℃	

Table 3: Full definition of test conditions and allowed ranges

Definitions and terms that are used by Lirong to describethe lifetime:

1) Useful life

The useful life test procedure comes close to the actual operating conditions in the application: in addition to the d.c.bias voltage and the presence of the upper category temperature, a ripple voltage is superimposed that causes additional thermal stress by self-heating. The test is terminated when 1% of the items under test are outside of the specified parameter limits.

2) Load Life

The load life test has similar test conditions like the useful life test, but the acceptance criteria are stricter than for the useful life test. Additionally, all of the items have to fulfill the test criteria.

3)Endurance

The method for conducting an endurance test is described in the IEC60384-4 standard: the capacitors are operated at their rated voltage and at their upper category temperature and the time course of their electrical parameters capacitance,ESR, leakage current)is observed until certain thresholds are exceeded. All of the items under test have to fulfill the test criteria.

4)Shelf Life

A good indicator to assess the chemical stability of electrolytic capacitors is the "shelf life". As opposed to the regular storage of capacitors at moderate temperatures, the shelf life test is a demanding accelerated life test that subjects the test specimens for a pre-defined period to their upper category femperature without any voltage applied. without any voltage applied, the capacitor cannot benefit from any self-healing during the test - this particular feature makes the shelf life test quite tough.Vital parameters like leakage current,capacitance,and dissipation factor must stay within predefined limits after the test. A high numerical value of the shelf life is a good indicator for chemical stability, high purity of the materials and an advanced production quality.

3-2 lifetime Estimation of the Aluminum electrolytic capacitor

3-2-1.Self-heating of the aluminum electrolytic capacitor during operation

During operation, the ripple current flowing through the aluminum electrolytic capacitor will generate heat due to the series equivalent resistance(ESR)of the capacitor. The generated heat will be:

$$P=I^2R\cdots\cdots\cdots\cdots\cdots\cdots(1)$$

Where I: Ripple current (Arms) R: ESR(Ω)

The heat will cause a core temperature rise of the capacitoras below:

$$\triangle T=\frac{I^2\cdot R}{A\cdot H}\cdots\cdots\cdots\cdots\cdots\cdots(2)$$

Where ΔT: Temperature increase in the capacitor core (℃) I: Ripple current (Arms) R: ESR (Ω)

A: Surface area of the capacitor(cm²) H: Radiation coefficient(1.5~2.0x10^{-3}W/cm²x℃)

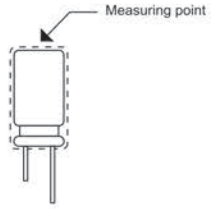
The above equation(2)shows that the temperature of a capacitor increase in proportion to the square of the applied ripple current and ESR, and in inverse proportion to the surface area. Therefore, the amount of the ripple current determines the heat generation,which affects the life. The value of permissible ΔT varies depending on the capacitor types and operating conditions. The usage is generally desirable as ΔT remains less than 10℃ for 85℃ products and 5℃ for 105℃ products and higher temperature products at their rated temperature.

In practice, since it is not so easy to measure the core temperature for the small size capacitors, the measurement of the surface temperature at the can bottom provides a good approximation of the core temperature value for radial and snap-in capacitors with can sizes up to 35 mm in diameter. The factors given below in table 4 can be used to estimate the core temperature rise based on the surface temperature rise.

Case diameter	6.3~10	12.5~16	18	22	25	30	35
Core/Surface	1.1	1.2	1.25	1.3	1.4	1.6	1.65

Table 4: core temperature rise multipliers for various can diameters

The measuring point for temperature increase due to ripple current is shown below:



For larger can sizes snap-in and screw type capacitors, to get more accurate results, a direct measurement of the core temperature by means of a thermocouple is recommended.

lirong supplies capacitors with pre-mounted thermocouple for evaluation purposes on request.

3-2-2 Estimation calculation of lifetime

3-2-2-1 The life expectancy formula considering the capacitor core temperature and the applied voltage will be:

$$L = L_0 \times 2^{\left(\frac{T_{hmax}-T_h}{10}\right)} \times \left(\frac{U_R}{U_A}\right)^n \cdots\cdots\cdots(3)$$

Wherein,L_0:Life at the rated temperature with the rated ripplecurent (h)

Thmax:Thmax: Pemmissible Maximum hot-spot temperature (℃)

Th:Actual hot-spot temperature(℃)

UR:Rated voltage(V) UA:Actual applied voltage(V) n:exponent

For small size radial type capacitors n=0; for medium and large size capacitors, n=2.5, the actual working voltage is defined as:

0.6UR≤UA≤UR

Operating voltage below 0.6UR is considered to be 0.6UR in the calculation.

3-2-2-2 The life expectancy formula considering the ambienttemperature ,the ripple current and applied voltage will be :

$$L=L_0 \times 2^{\left(\frac{T_0-T}{10}\right)} \times K^{\left[1-\left(\frac{I}{I_0}\right)^2\right] \times \frac{\triangle T_0}{10}} \times \left(\frac{U_R}{U_A}\right)^n \cdots\cdots\cdots(4)$$

Wherein,L_0:Life at the rated temperature with the rated ripplecurent (h) T_0:Rated ambient temperature(℃)

T:Actual ambient temperature(℃)

K:Ripple acceleration factor (K=2, if within allowable ripple current K=4, if exceeding allowable ripple current)

I_0Rated ripple current at the rated ambient temperature(Arms) I:Actual applied ripple curent(Arms)

△T0:Temperature rise at capacitor core at rated femperature (℃) UR: Rated working voltage(V)

UA:Actual working voltage(V)

n: exponent, for small size radial type capacitors n=0; for medium and large size capacitors, n=2.5 the actual working voltage is defined as:

0.6UR≤UA≤UR

Operating voltage below 0.6UR is considered to be 0.6UR inthe calculation.

Note: The frequency of the actual ripple current should be consistent with that of rated ripple current.

3-2-2-3 The life expectancy formula of Axial&Crown aluminum electrolytic capacitors

$$L = L_0 \times 2^{\left(\frac{T_0-T}{C}\right)} \cdots\cdots\cdots(5)$$

Wherein, L:Theoretical lifetime at actual operating temperature L_0: Lifetime at rated operating temperature

T:Actual operating temperafure T_0:Rated operating temperature

C:Temperature acceleration factor, experienced value is 10~12

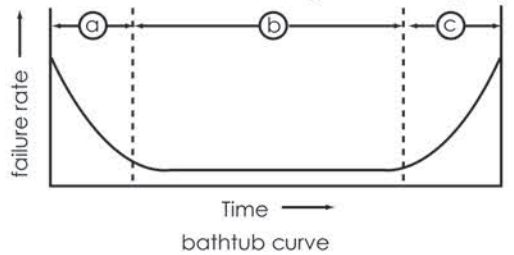
Expected lifetime is a statistical value calculated on the basis of the experience and on theoretical evaluations, The above formula is only considered as a theoretical reference. Please consult our technical deparment in case that there is some doubts during calculation or further information about the specific products need to be acquired.

The life expectancy formula shall in principle be applied to the temperature range between the ambient temperature of+40℃ and maximum allowable working temperature.The expected life time shall be about fifteen years at maximum as a guide in terms of deterioration of the sealant.

4.Reliability

4-1The bathtub curye

Aluminum electrolytic capacitors feature failure rates shown by the following bathtub curve.



bathtub curve

A Infant failure period

This is a period during which failures are caused by deficiencies in design, structure, manufacturing process or severe misapplications. Such failures occur soon after the components are exposed to circuit conditions.In aluminum electrolytic capacitors, these failures are either corrected through aging process reforming or repairing a damaged oxide layer, or found by the aging process, removed by the sorting process, and thus do not reach the field.

Infant failures due to capacitor misapplication such as inappropriate ambient conditions,over-voltage， reverse voltaae or excessive ripple currentcan be avoided with proper circuit design and installation.

B Useful life period

This is a random failure period during which the failure rate is the lowest. These failures are not related to operating time but to application conditions. During this period, non-solid caluminum electrolytic capacitors show a slow decrease in capacitance and a slow increase in tanδ and ESR, which are caused by a small loss of electrolyte, and feature fewer catastrophic failures than semiconductors and solid tantalum capacitors.

C wear-out failure period

This is a period during which the properties of a component extremely deteriorate, and the failure rate increases with time. Non-solid aluminum electrolytic capacitors end their useful life during this period.

4-2.Failure types:

The two types of failures are classified as catastrophic failures and wear-out failures as follows,

① Catastrophic failure

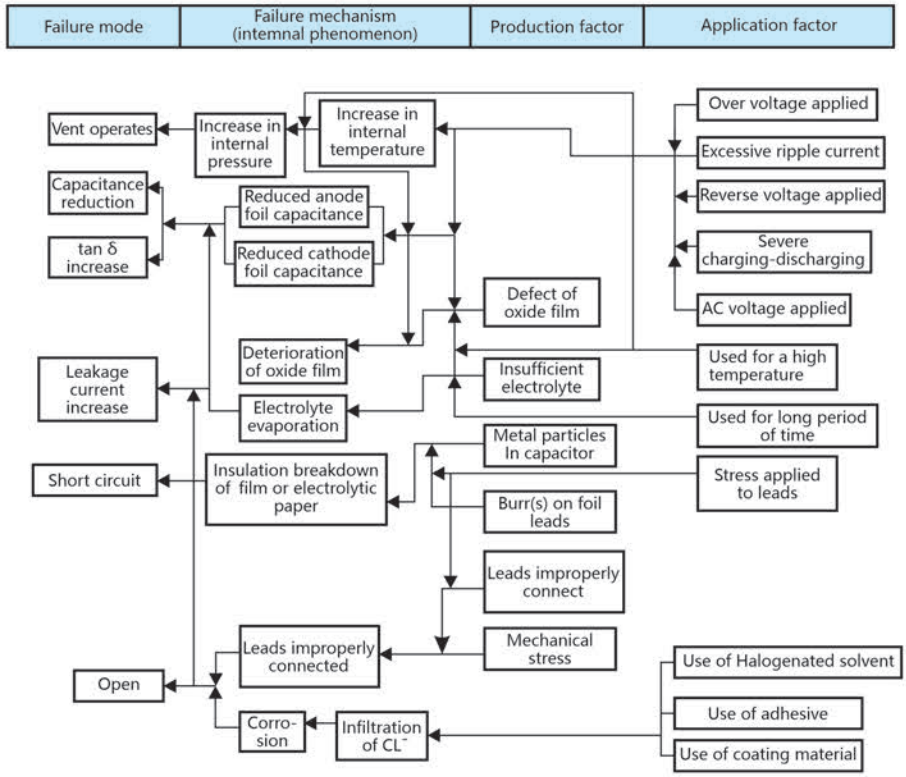
Like a short circuit or open circuit failure, this is a failures mode which destroys the function of the capacitor.

②) Wear-out failure

This is a failure mode resulted by the gradual deterioration of the capacitor electrical parameters. The criteria for judging the failures varies with application and design factors.

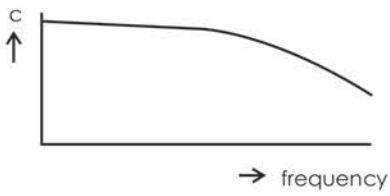
Capacitance decrease and tanδ increase are caused by the loss of electrolyte in the wear-out failure period. This is due primarily to loss of electrolyte by diffusion (as vapor) through the sealing material. Gas molecules can diffuse out through the material of the end seal. If the electrolyte vapor pressure within the capacitor is increased, by high temperatures for example, the diffusion rate is increased. Swelling of the seal material by electrolyte vapor pressure may also occur at elevated temperature. This swelling may further enhance diffusion and mechanically weaken the seal.

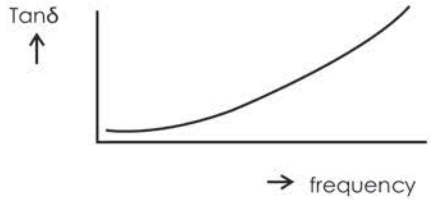
4-3 Typical failure modes and factors of aluminum electrolytic capacitors

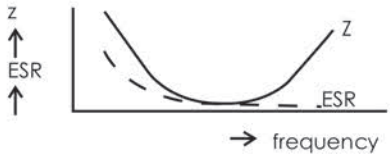


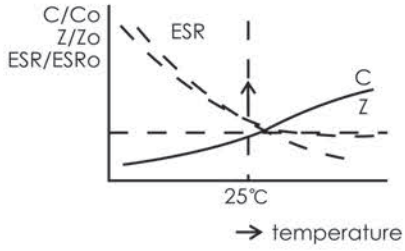
5.Electrical behaviour

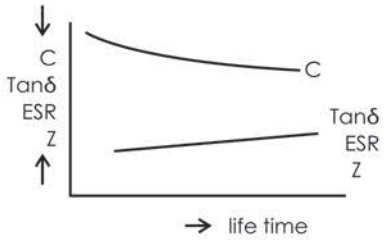
Characteristics of electrical capacitors vary wity temperature, time, and applied voltage.

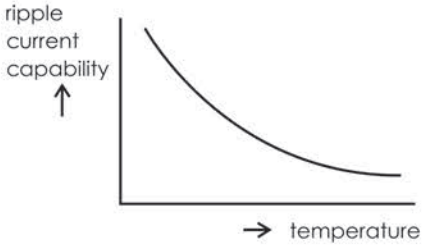


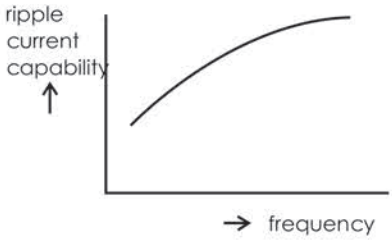


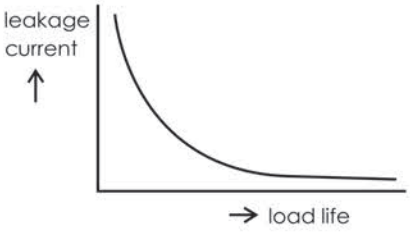


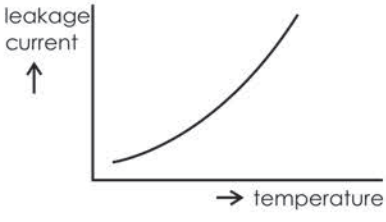


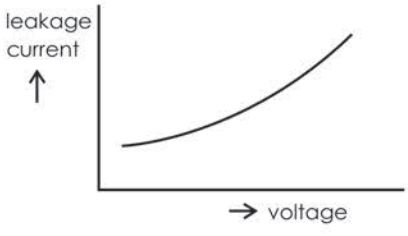


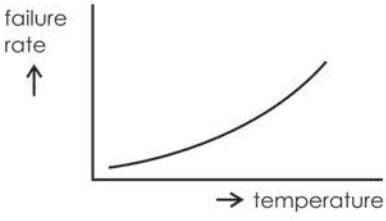


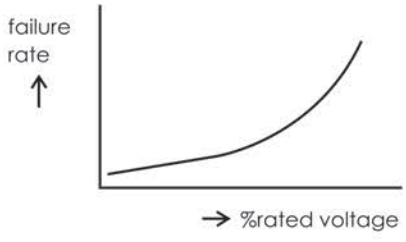












6.Application Guidelines

6-1.Circuit Design

(1)Please make sure the application and mounting conditions to which the capacitor will be exposed are within the conditions specified in the catalog or alternate product specification (Referred as to specification here after) .

(2)Operating temperature and applied ripple current shall be within the specification.

The capacitorshall not be used in an ambient temperature which exceeds the operating temperature specified in the specification.

Do not apply excessive current which exceeds the allowable ripple current.

(3) Appropriate capacitors which comply with the life reQuirement of the products should be selected when designing the circuit.

(4) Aluminum electrolytic capacitors are polarized. Make sure that no reverse voltage or AC Voltoge is applied to the capacitors. please use bi-polar capacitors for a circuit that can possibly see reversed polarity.

Note: Even bi-polar capacitors can not be used for AC voltoge application.

(5) For a circuit that repeats rapid charging/discharging of electricity,an appropriate capacitor that is copable of enduring such a condition must be used. welding machines and photoflash are a few examples of products that contain such a circuit. In addition,rapid charging/discharging may be repeated in control circuits for servomotors,In which the circuit voltoge fluctuates substantially.

For appropriate choice of capacitors for circuit that repeat rapid charging/discharging,please consult Us.

(6) Make sure that no excess voltage (that is,higher than the rated voltoge) is applied to the capacitor.

please pay attention So that the peak voltage,which is DC voltoge overlapped by ripple current, will not exceed the rated voltoge ·

In the case where more than 2 aluminum electrolytic capacitors are used in series,please make sure that applied voltoge on each capacitor will be lower than rated voltoge and the voltoge will be applied to each capacitor eaually using a balancing resistor in parallel with the capacitors.

(7) Outer sleeve of the capacitor is not guaranteed as an electrical insulator. Do not use al standard sleeve on o capacitor in applications that require the electrical insulation . when the application reauires specioal insulation,please contact Us for details.

(8) Capacitors may fail if they are used under the following conditions:

① Environmental (climatic) conditions

(a) Being exposed to water, high temperature & high humidity atmosphere,or condensation of moisture.

(b)Being exposed to oil Or an atmosphere that is filled with particles of oil .

(c)Being exposed to salty water or an atmosphere that is filled with particles of salt.

(d)In an atmospherE fillEd with toxic gasses (such as hydrogen sulfide,sulfurous acid,nitrous acid,chlorine,bromine,methyl bromide,ammonia,etc.)

(e)Being exposed to direct sunlight, ozone,ultraviolet ray, or roadiation

(f)Being exposed to acidic or alkaline solutions

②Under severe conditions where vibration and/or mechanical shock exceed the applicable ranges of the specifications.

(9)When designing o P.C. board,please pay attention to the following:

①Have the hole spacing on the P.C. board match the lead spacing of the capacitor.

②There should not be any circuit pattern or circuit wire above the capacitor pressure relief vent.

③Unless otherwise specified,the following clearance distances need to be kept above the pressure relief safety vent to ensure its proper operation.

case Diameter	clearance Required
6.3~16mm	2mm or more
18~35mm	3mm or more
40mm or more	5mm or more

④In case the vent side is placed toward P.C. board (such as end seal vented parts),make a corresponding hole on the P.C. board to release the gas if vent is operated. The hole should be made to match the capacitor vent position.

screw terminal capacitors must be installed with their end seal side facing Up. when you install a screw terminal capacitor in a horizontal position,the positive terminal must be in the upper position.

(10) The main chemical solution of the electrolyte and the separator paper used in the capacitors are combustible. The electrolyte is electrically conductive. when it comes in contact with the P.C. board,there is a possibility of pattern corrosion or short circuit between the circuit pattern which could result in smoking or catching fire.

Do not locate any circuit pattern beneath the capacitor end seal ·

(11) Do not design a circuit board with heat generating components placed near an aluminum electrolytic capacitor or on the reverse side of p.C. board under the capacitor.

(12) Electrical characteristics may vary depending on changes in temperature and frequency. please consider this variation when you design circuits.

(13) When you mount capacitors on the double-sided P.C . boards,do not place capacitors on circuit patterns, otherwise it may causes short circuit on the PCB.

(14) The torque applied on the terminal screws or brackets screws shall be within the range given in the specifications.

(15) when you install more than 2 capacitors in parallel consider the balance of current flowing through the capacitors. Especially if solid conductive polymer aluminum electrolytic capacitor and a standard aluminum electrolytic capacitor are connected in parallel,special care must be taken.

6-2.Mounting

(1) Once a capacitor has been assembled in the set and power applied,even if a capacitor is discharged,an electric potential(recovery voltage) moy exist between the terminals.

(2) Electric potential between positive and negative terminal may exist as a result of returned electromotive force,So please discharge the capacitor using o 1 kresistor.

(3) Please confirm ratings before installing capacitors on the P.C. board .

(4) Please confirm polarity before installing capacitors on the P.C. board .

(5) Do not drop capacitors on the floor, nor use a capacitor that was dropped.

(6) Do not damage the copacitor while installing.

(7) Please confirm that the lead spacing of the capacitor matches the hole spacing of the P.C . board prior to installation .

(8) Snap-in type capacitor should be installed tightly to the P.C. board (allow no gap between the P.C . board and bottom of the capacitor) .

(9) Please pay attention that the clinch force is not too strong when capacitors are placed and fixed by an automatic insertion machine.

(10) Please pay attention to that the mechanical shock to the capacitor by suction nozzle of the automatic insertion machine or automatic mounter, or by product checker, or by centering mechanism.

(11) Hand soldering.

① Soldering condition shall be confirmed to be within the specification.

② If it is necessary that the leads must be formed due to a mismatch of the lead space to hole space on the board,bend the lead prior to soldering without applying too much stress to the capacitor.

③ If you need to remove parts which were soldered,please melt the solder enough So that stress is not applied to lead .

④Please pay attention So that solder iron does not touch any portion of capacitor body.

(12) Flow soldering (wave solder)

① Aluminum capacitor body must not be submerged into the solder bath. Aluminum capacitors must be mounted on the "top side" of the P.C. board and only allow the bottom side of the P.C. board to come in contact with the solder.

② Soldering condition must be confirmed to be within specification.

solder temperature: 260±5℃,I mmersing lead time: 10±1second,Thickness of P.C. board : 1.6mm.

③ Please avoid having flux adhere to any portion except the terminal .

④ Please avoid contact between other components and the aluminum capacitor.

(13) Reflow soldering (SMD Only)

① Soldering condition must be confirmed to be within specification.

pre-heating : Less than 150℃,90 seconds max. Max. temperature at copa citor top during reflow : 230℃

The duration for over 200℃ temperature at capacitor top: 20 seconds max.

The duration from the pre-heat temperature to peak temperature of reflow varies due to changes of the peak temperature.

② The number of reflow time for SMT aluminum electrolytic capacitors shall be one time. If this type of capacitor has to be inevitably subjected to the reflow twice,enough cooling time between the first and second reflow (at least more than 30 minutes) shall be taken to avoid consecutive reflow. please contact Us if you have auestions.

(14) Soldering flux, Cleaning agents, Conformal coating&fixing glue Ionic halides and non-ionic halides are both harmful to the

capacitors, When either of these halides infiltrate the capacitor, it causes a chemical reaction that is quite harmful to the capacitors. Use soldering flux, cleaning agents, conformal coating & fixing glue that does not contain any halides. In addition, sulfur is also discovered to be harmful to the capacitor, so avoid using soldering flux, cleaning agents, conformal coating&fixing glue containing sulfur.

(15) Do not tilt lay down or twist the capacitor body after the

capacitors are soldered to the P.C. board.

(16) Do not carry the P.C. board by grasping the soldered capacitor.

(17) Please do not allow anything to touch the capacitor after soldering. If P.C. board are stored in a stack, please make sure P.C . board or the other components do not touch the capacitor.

The capacitors shall not be effected by any radiated heat from the soldered P.C. board or other components after soldering.

6-3. In theequipment

(1) Do not directly touch terminal by hand.

(2) Do not short between terminals with conductor, nor spill conductible liquid such as alkaline or acidic solution on or near the capacitor.

(3) Please make sure that the ambient conditions where the set is installed will be free from spilling water or oil,direct sunlight, ultraviolet rays,radiation,poisonous ases,vibration or mechanical shock.

6-4.Maintenance Inspection

Please periodically inspect the aluminum capacitors that are installed in industrial equipment. The following items should be checked:

① Appearance : Remarkable abnormality such as vent operation, lealking electrolyte etc.

② Electrical characteristic: capacitance,dielectric loss tangent,leakage current, and items specified in the specification.

6-5. Inan Emergency

(1) If you see smoke due to operation of safety vent, turn off the main switch or pull out the plug from the outlet.

(2) Do not bring your face near the capacitor when the pressure relief vent operates. The gasses emitted from that are over 100℃ .

If the gas gets into your eyes,please flush your eyes immediately in pure water.

If you breathe the gas,immediately wash out your mouth nd throat with water.

Do not ingest electrolyte. lf your skin is exposed to electrolyte,please wash it away using soap and water.

6-6.storage

(1) It is recommended to store capacitors at ambient temperatures from 5℃ to 35℃ and at relative humidity of 75% or below.

(2) The leakage current of the electrolytic capacitor tends to increase after long time storage,it is suggested to reconfirm the leakage current before use them in case the capacitors are stored for more than l year. If necessary,voltoge treatment could be performed by connecting o 1 KQ resistor to reduce the leakage current.

(3) Confirm that the environment does not have any of the following conditions:

①where the capacitors may have the possibility to get water, salt or oil spill.

②The atmosphere is filled with hazardous ases (e. g · hydrogen sulfide,sulfurous acid,nitrous acid,chlorine,bromine,methyl bromide,ammonia,etc.)

③Where the capacitors are exposed to ultravoilet or radioactive rays.

6-7.useathigh altitude

If the capacitors are used at high attitude,such as at mountainous regions or on an aircraft, the air pressure outside the capacitor decreases and causes a difference between the internal pressure and external pressure. Howerver, this low atmospheric pressure is no problem for the capacitor Up to an attitude about 1 0000 meters. Another condition should be noticed is that the ambient temperature decreases with increased altitude,please check the operation of the electronic eauipment at such low temperature .

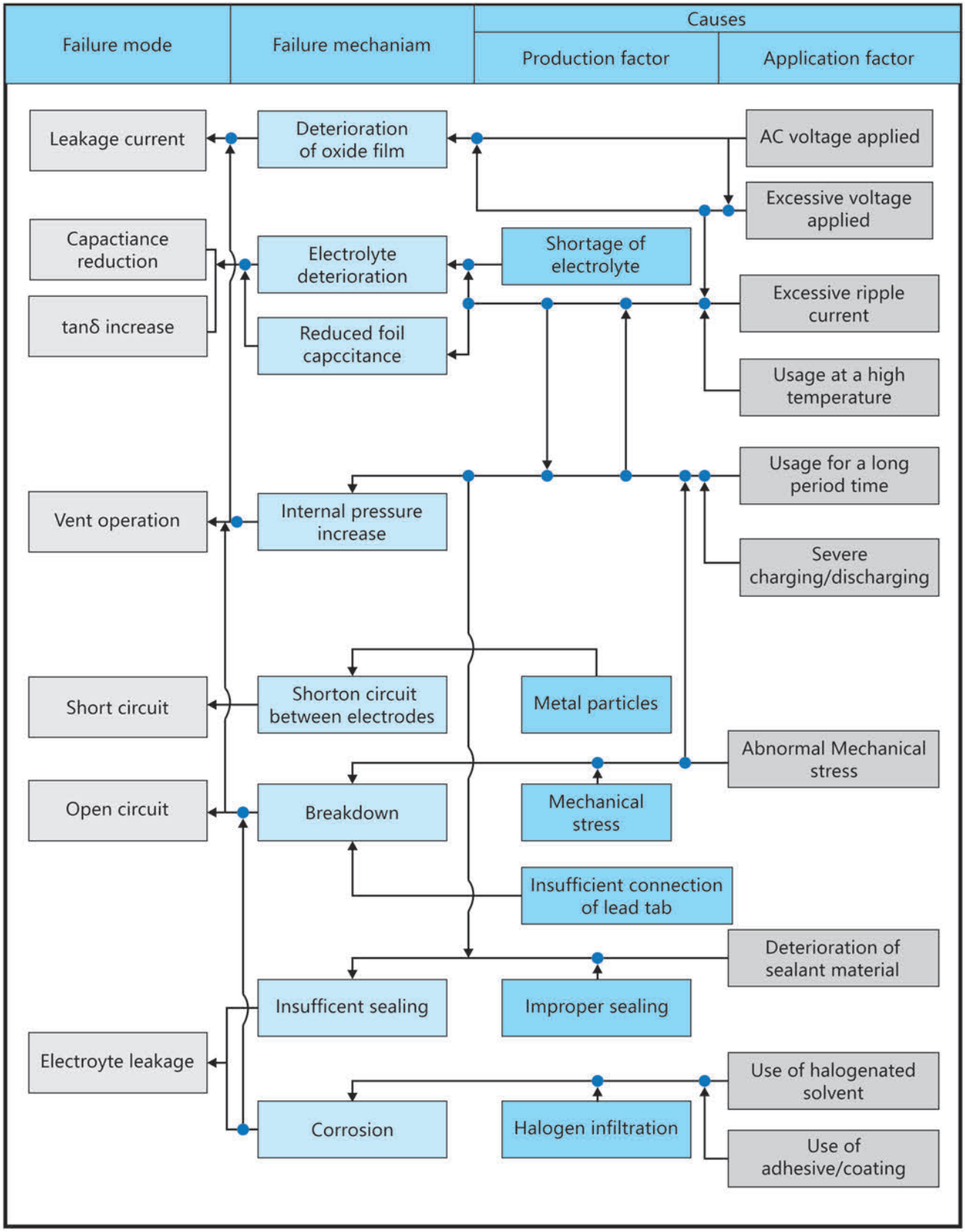
6-8.Disposal

Take either of the following methods in disposing of capacitors.

Make a hole or crush the capacitors(to prevent explosion) before incineration at approved facility.

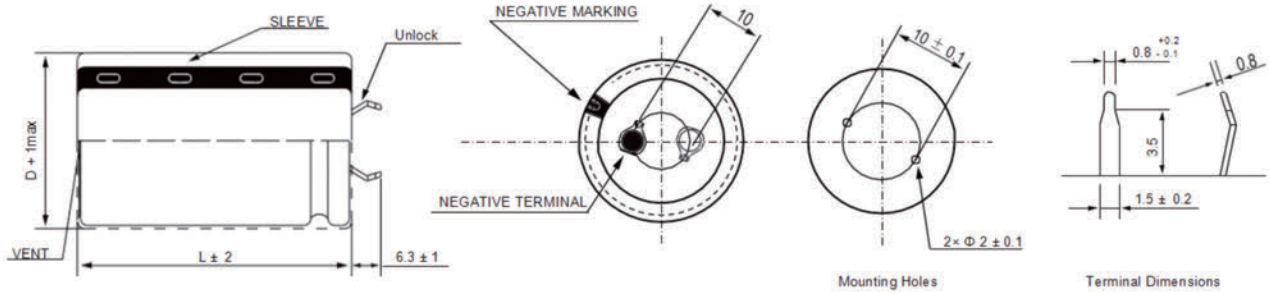
If incineration is not applicable,hand them over to a professional industrial waste disposal company to dispose according to local laws.

6、Typical failure modes and main causes

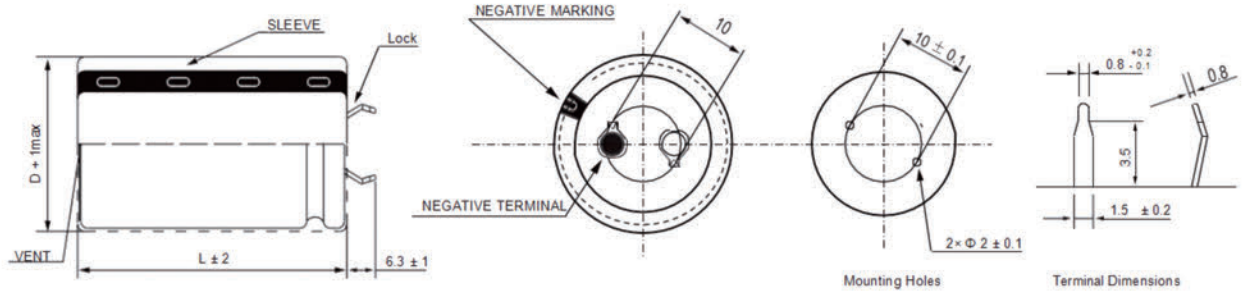


7、Diagram of welding pins

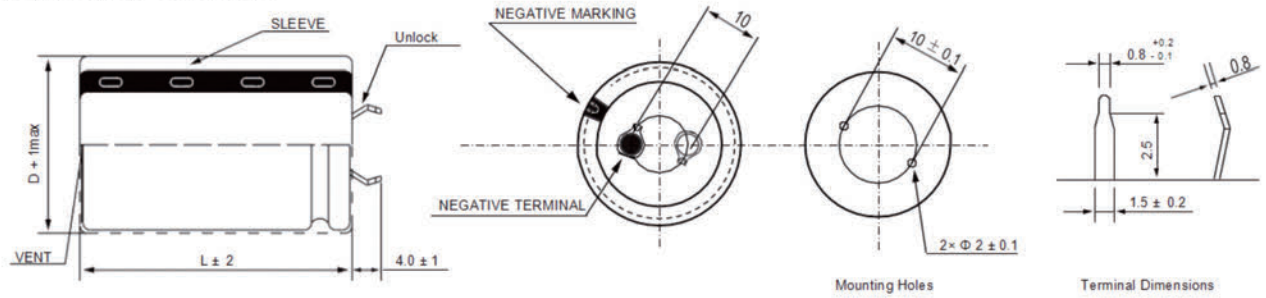
K-type (63) Unit:mm 1



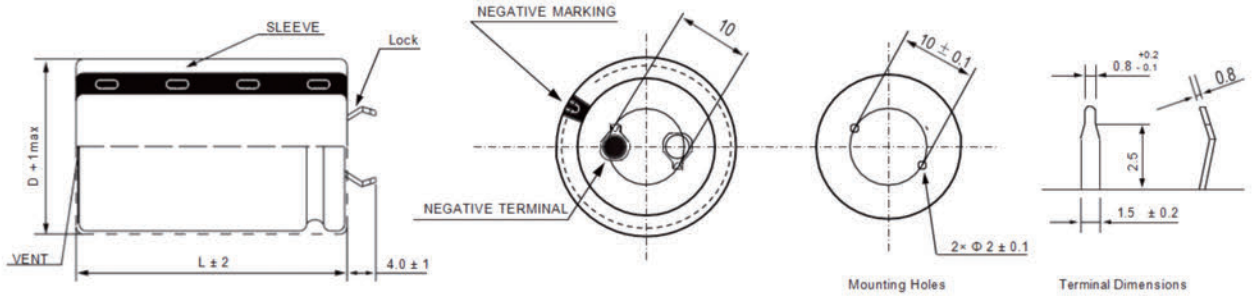
K-type (63-Z) Unit:mm 2



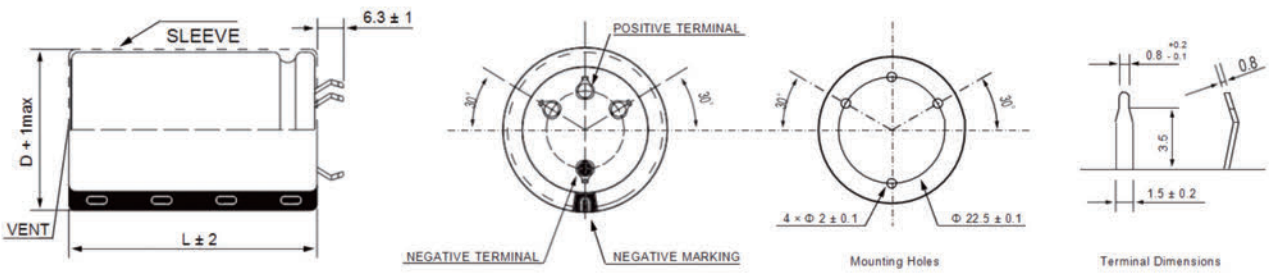
K-type (40) Unit:mm 3



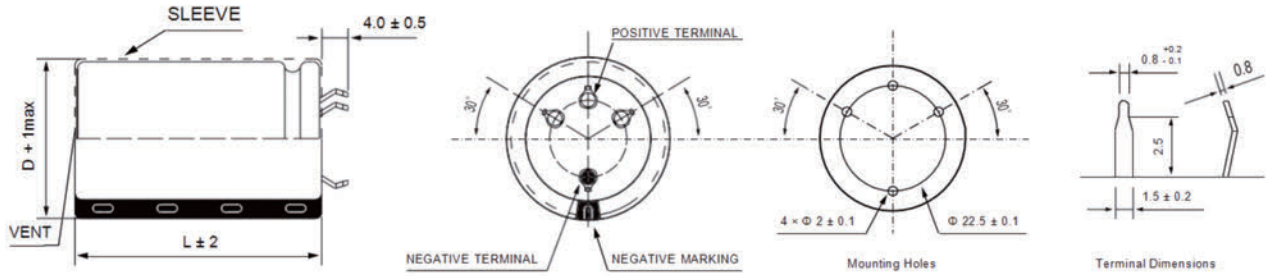
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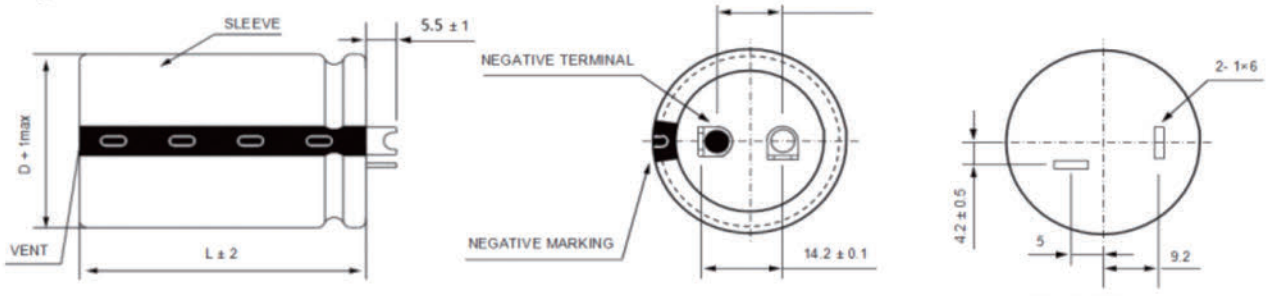
M-type (63) D≥35mm Unit:mm 5



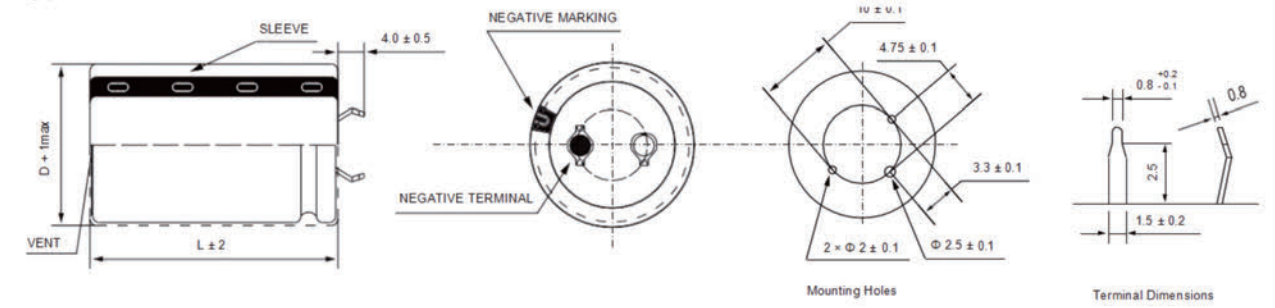
M-type (40) D≥35mm Unit:mm 6



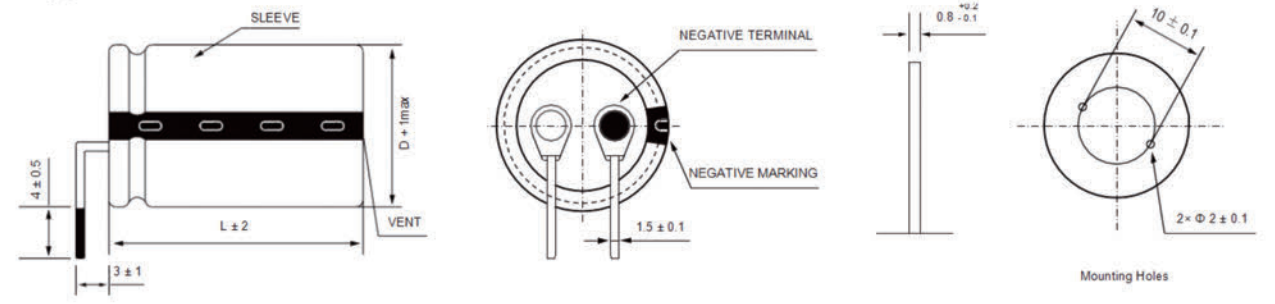
U-type (55) Unit:mm 7



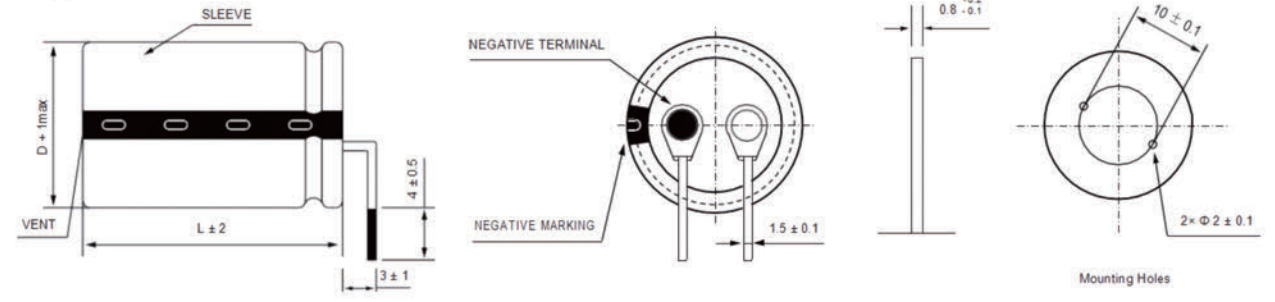
L-type (40) Unit:mm 8



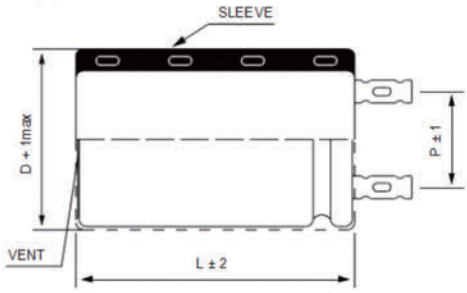
XR-type (40) Unit:mm 9

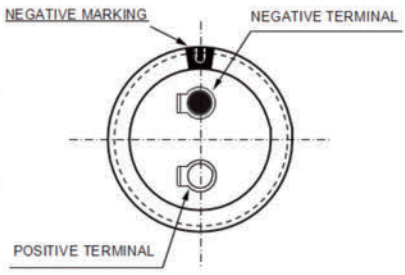


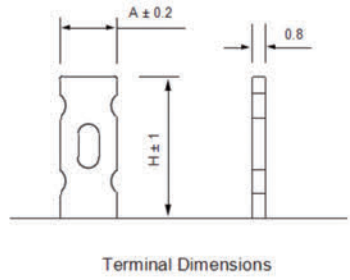
XL-type (40) Unit:mm 10



P-type (58) Unit:mm 11



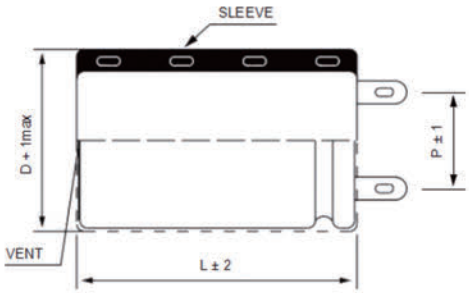


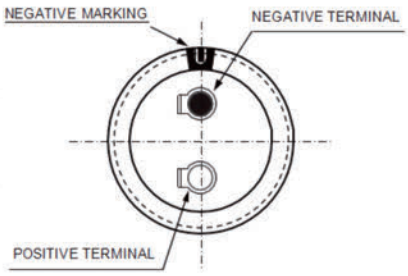


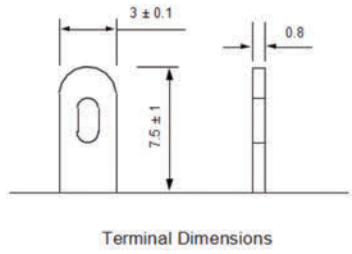
Terminal Dimensions

D	P	A	H
Φ25~35	10.0	4.7	11
Φ40,45	14.0	5.5	13
Φ50	20.0	5.5	13

H-type (58) mm Unit:mm 12



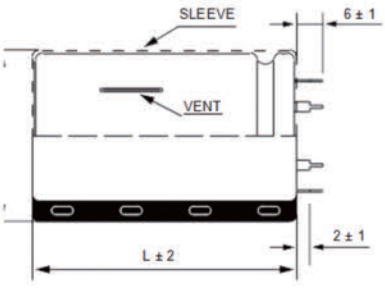


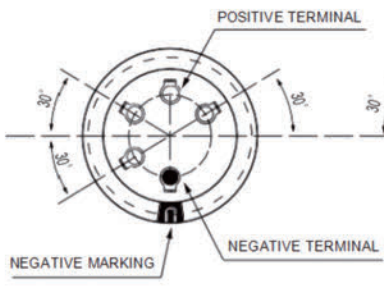


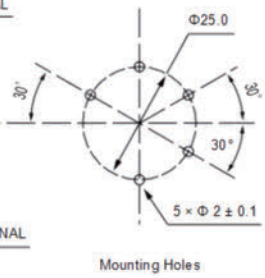
Terminal Dimensions

D	P
Φ22~30	8.0
Φ35	10.0

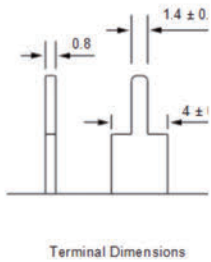
W-type (63) D≥40mm Unit:mm 13





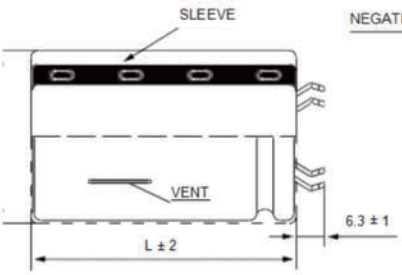


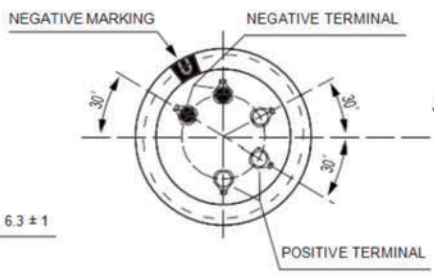
Mounting Holes

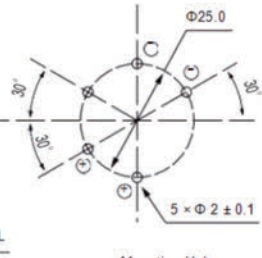


Terminal Dimensions

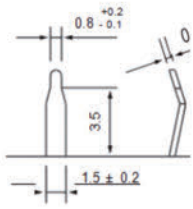
C-type (63) D≥40mm Unit:mm 14







Mounting Holes



Terminal Dimensions

8、Part number system for snap in capacitor:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
11		11		L	K	S	2	G	4	7	1	M	S	0	5	0	K	4	0	B
Capacitor		Capacitor type		Product Series			Voltage(V)		Capacitance(uF)			Capacitance tolerance	Diameter (mm)	Length(mm)			Pin code	Height of pin(mm)		Casing and font color

1-2:Capacitor products; 11
3-4:Capacitor type; 11 snap in, 12 screw
5-7:Product series : see the list of product.
8-9:Voltage codes : all code as following:

Voltage(V)	6.3	10	16	25	35	50	63	80	100	160	180
Code	0J	1A	1C	1E	1V	1H	1J	1K	2A	2C	2K

Voltage(V)	200	250	315	350	400	450	475	500	550	600	650
Code	2D	2E	2F	2V	2G	2W	2X	2H	2Y	2S	2P

10-12:Capacitance code:68μF is 680, 470μF is 471, 10000μF is 103, 820uF is 821,
1200uF is 122.
13:Capacitance tolerance codes : all codes as following:

Tolerance	±10%	±15%	±20%	±5%	-5～+20%	-10～+30%	-8～+8%	-10～+50%	-10～+20%	-20～+50%	0～+20%	0～+100%
Code	K	L	M	J	H	Q	B	T	V	S	R	P

14:Diameter code :all codes as following :

Diameter (mm)	20	22	25	25	30	35	36	40	42	45	50	51
Code	O	P	Q	I	R	S	A	B	T	V	J	C

15-17:Length :50mm is 050.
18:Pin code : all codes as following:

Type of pin	2 pin	3 pin	4 pin	5 pin	U-type vertical solder	U-type parallel solder	Round head with hole solder	Flat head with hole solder	4mm long after bending
Code	K	L	M	N	U	T	H	P	Z

19-20:Pin code : Exposed casing height all codes as following:

Height of pin	4.0±1mm	4.5±1mm	5±1mm	5.5±1mm	5.8±1mm	6.0±1mm	6.3±1mm	7.6±1mm
Code	40	45	50	55	58	60	63	76

21:Casing and font color:

Type of pin	Black background with white letters	Coffee white lettering	Green background with golden letters	Black background with silver letters	Black background with golden letters	Orange red black letters	Blue background with white letters	Green background with silver letters
Code	B	C	G	S	D	O	V	P

Note:
1.he above for our product naming, part of the specifications of the code will exist iterative update, special specifications can not be enumerated;
2.In order to distinguish between customers customized products in some cases need to add a special suffix code, any questions about the product model, can contact us.

9、Part number system for screw capacitor:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	21
11		12		L	P	S	2	G	4	7	2	M	D	0	P	0	Y	X	5
Capacitor		Capacitor type		Product Series			Voltage(V)		Capacitance(uF)			Capacitance tolerance	Diameter (mm)	Length(mm)			Pin code	Height of pin(mm)	Casing and font color

1-2:Capacitor products; 11
3-4:Capacitor type; 11 snap in, 12 screw
5-7:Product series : see the list of product.
8-9:Voltage codes : all code as following:

Voltage(V)	6.3	10	16	25	35	50	63	80	100	160	180
Code	0J	1A	1C	1E	1V	1H	1J	1K	2A	2C	2K

Voltage(V)	200	250	315	350	400	450	475	500	550	600	650
Code	2D	2E	2F	2V	2G	2W	2X	2H	2Y	2S	2P

10-12:Capacitance code: 6800μF is 682, 4700μF is 472, 10,000 μF is 103, 8200 μF is 822.
13:Capacitance tolerance codes : all codes as following:

Tolerance	±10%	±15%	±20%	±5%	-5~+20%	-10~+30%	-8~+8%	-10~+50%	-10~+20%	-20~+50%	0~+20%	0~+100%
Code	K	L	M	J	H	Q	B	T	V	S	R	P

14: Diameter, all diameter codes are shown in the table below:

Diameter (mm)	51	67	77	90	101
Code	C	D	E	F	G

15-17: Product height, 90mm high products are represented as 090, 100mm high products are represented as 100,180mm high products are represented as 180.
18: Installation mode:

Type	Clamp ring 2 holes	Clamp ring 3 holes	Bottom Stud
Code	I	Y	N

19-20: Terminal diameter:

Terminal(mm)	17	13	12	10
Code	D	Z	T	X

21:Terminal screw:

Terminal diameter	M8	M6	M5
Code	8	6	5

Note:
1.the above for our product naming, part of the specifications of the code will exist iterative update, special specifications can not be enumerated;
2.in order to distinguish between customers customized products in some cases need to add a special suffix code, any questions about the product model, can contact us.

10、Diagram of terminal and CAP

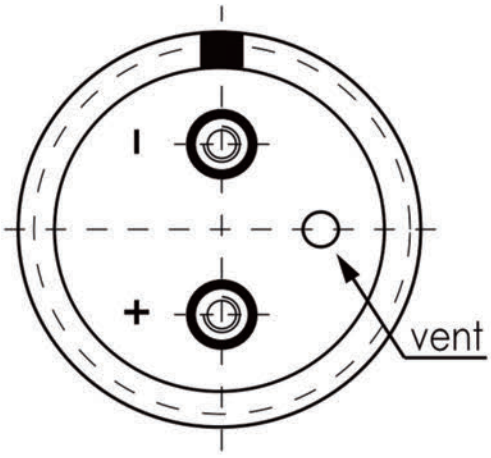


Fig.1-Terinal、A

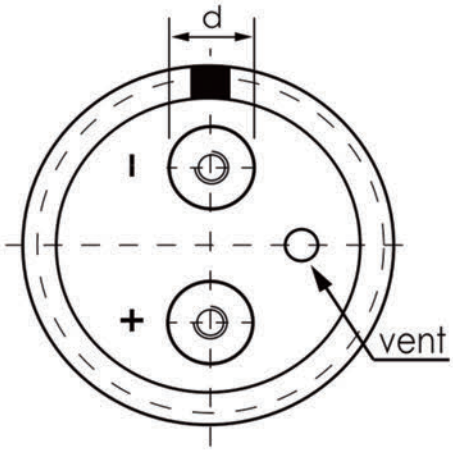


Fig.2-Terinal、B、C

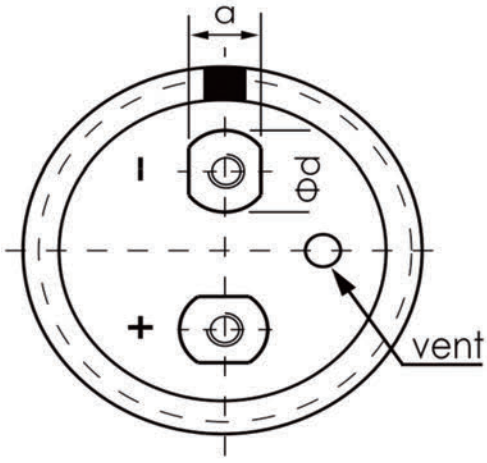
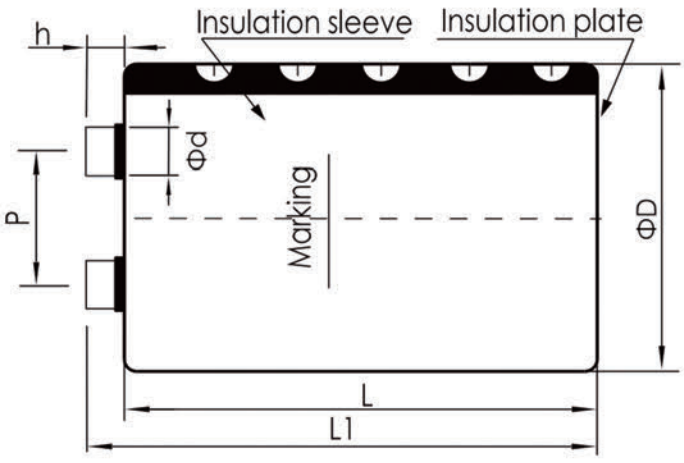


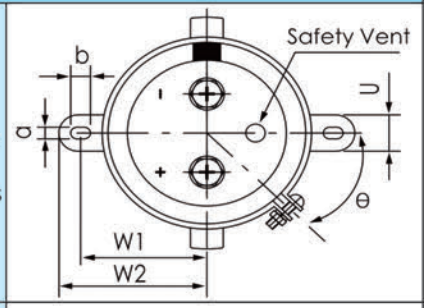
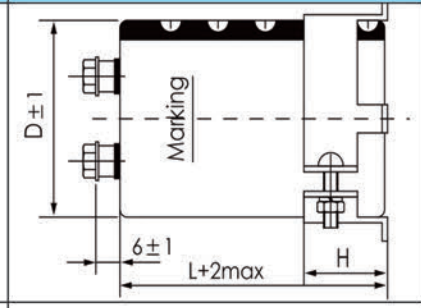
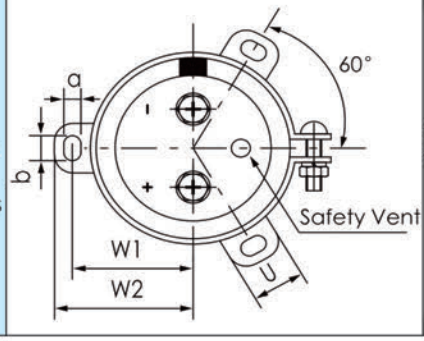
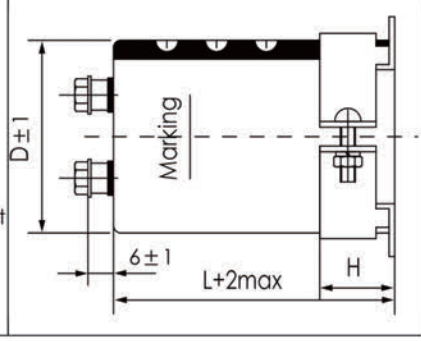
Fig.3-Terinal、D



Terminal Code	Can Diameter ΦD±1mm	Thread	Φd±0.3mm	Thread Depth	h±0.5mm	L1±2.0mm	Drawing
A	51~90	M5	10.0	9	6.0	L+h	Fig.1
B	77~90	M6	17.2	11	6.0	L+h	Fig.2
C	64	M5	13.0	9	6.0	L+h	Fig.2
	77~90	M5	17.2	11	6.0	L+h	Fig.2
D	51	M5	13 (a=10)	9	5.0	L+h	Fig.3
	64	M5	15 (a=13)	9	6.0	L+h	Fig.3
	77	M6	15 (a=13)	9	6.0	L+h	Fig.3

11、Screw Type Aluminum Capacitor Mounting Method

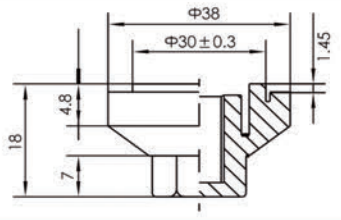
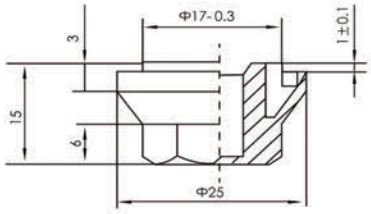
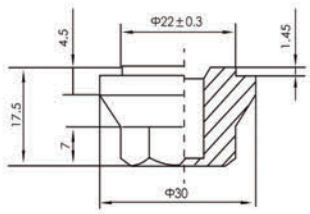
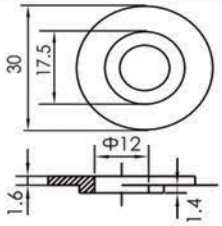
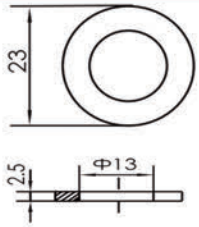
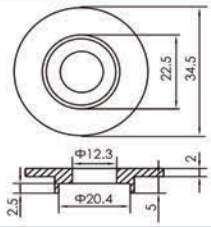
Screw capacitor installation method 1: Clamp ring installation.Like:

Clamp ring size	Installation	size
I Type 2 Holes		
Y Type 3 Holes		

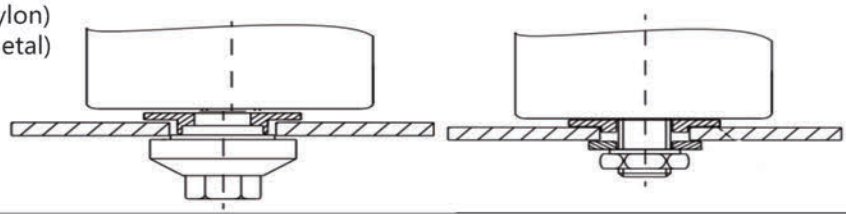
ΦD	W1	W2	a	b	U	H
36	24	29	3.8	7	10	15
51	34	40	5	7	14	30
64	40.5	46.5	5	7	14	30
77	46.8	53	5	7	14	30
90	54	60.3	5	7	14	35

ΦD	W1	W2	a	b	U	H
51	31.8	36.5	5	7	14	30
64	38.1	42.6	5	7	14	30
77	44.5	49.2	5	7	14	30
90	50.8	55.6	5	7	14	30
101	57.5	63.5	5.5	8	20	35

Screw capacitor installation method 2: Bottom stud installation:
Default N1 nylon nut, bottom plate. Like:

N1(M12)	N2(M8)	N3(M12)
		
Insulating bottom plate(PP)	Insulating bottom plate(PP)	
		

Installation 1: Nut (nylon)
Installation 2: Nut (metal)

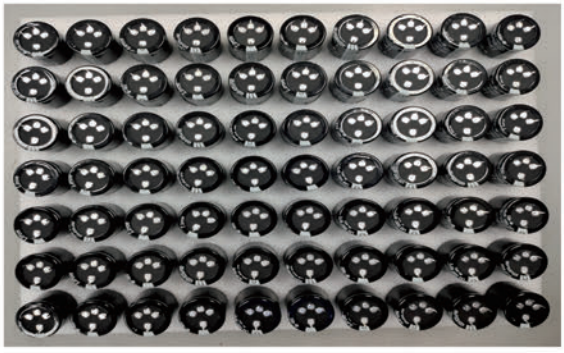


≤6mm

12、Packaging spackaging(Snap in capacitor)

12-1.The quantity of the inner case is the same as the quantity marked on the outer case, the inner packaging materials are made of pearl cotton, external carton uses 200g/㎡ corrugated base paper;
12-2. Packing regulations for Snap-in terminal products: the height of the cartons depends on the height of the products; 130-245mm;

Materials	Φ22	Φ25	Φ30	Φ35	Φ40	Φ45
Cotton/layer	154pcs	130pcs	80pcs	70pcs	63pcs	42pcs






12-3.Outer Box:
Carton length 435mm*width 340mm*height 130mm, 185mm, 210mm, 245mm
12-4.Packing regulations

Product height mm	30-40	45-50	51-70	71-85	86-90
Carton height mm	210	245	185	210	130
The layer number of packing	3	3	2	2	1

For example: Φ35, 30-50mm height, packing layer number of 3 layers,
product packing number: 70pcs*3 layers =210pcs;

13、Packaging spackaging(Screw terminal capacitor)

13-1.The quantity of the inner case is the same as the quantity marked on the outer case, the inner packaging materials are made of pearl cotton, external carton uses 200g/m² corrugated base paper;

13-2、Packing regulations for screw terminal products: the height of the cartons depends on the height of the products; 130-280mm;

Quantity	Φ36	Φ51	Φ64	Φ77	Φ90	Φ100
Quantity per Carton	70pcs/Carton	28pcs/Carton	20pcs/Carton	15pcs/Carton	12pcs/Carton	6pcs/Carton
Carton size (L*W)	435x340	485x310	435x340	485x310	435x340	435x340

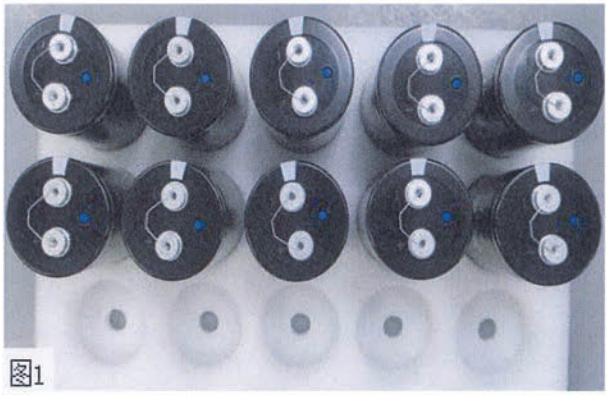


图1

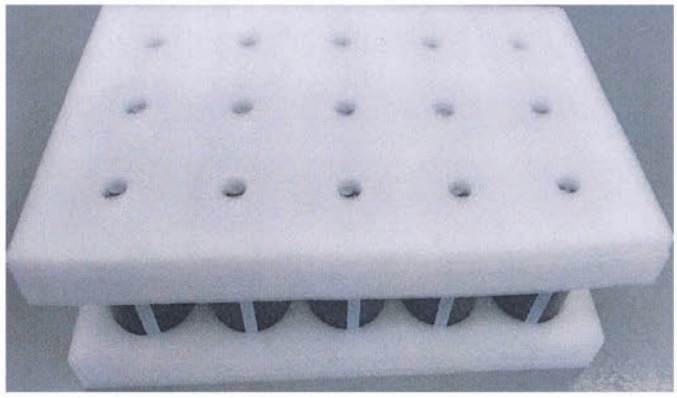




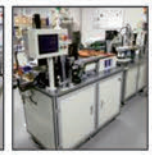
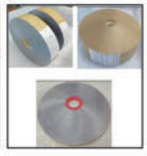
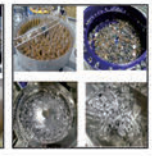
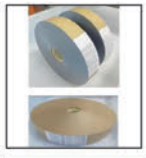
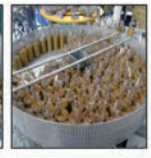
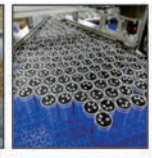
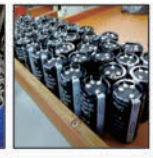
图2



Figure 1: Pear cotton for inner packing

Figure 2: Cartons for outer packing

14、Aluminum electrolytic capacitor production process flow chart

Production Equipment								
Equipment Name	Cutting Machine	Winding Machine	Dipping Machine	Assembling Machine	Casing Machine	Aging Machine	Testing Machine	Appearance Inspection and Packaging
Function	Cut the aluminum foil to different widths according to the specification	Roll the certain size aluminum foil, guide chaff and electrolytic pater into a concentric core package	Put the core packages into the dipping machine with electrolyte for vacuum compressing immersion, until the coil packages develop capacity.	Assemble the soaked core package with a perforated and riveted bakelite cap, seal the joint to prevent electrolyte leakage.	Cut off the sleeve according to a certain size, let it shrink on the bare product at high temperature, and to give the product an identification mark	Charge the product at high temperature, repair the oxide film on the surface of aluminum foil, to ensure the stability of the capacitor's electrical performance	100% automatic full inspection of product parameters, distinguish good products from bad ones	1. 100% appearance inspection of all products, eliminating appearance defects 2. Pack the products into the box as required
Process Name	Cutting →	Winding →	Dipping →	Assembling →	Casing →	Aging →	Testing →	Appearance and Packaging
Materia								
Material Name	+/- Aluminum Foil、Electrolytic Paper	Cut Material、Guide chaff	Core Package、Electrolyte	Soaked Core Package、Bakelite Cap、Washers、Aluminum Case	Sleeve、Gasket、Bare Product	Semi-Finished Product	Charged Finished Product	Finished Product、Packing box
QC Test Item	Burr size Foil width Foil firmness	Pin impedance and thickness. Structure. Position of paper and foil. Guide Chaff Length.	Core drying. Vacuum. Immersion degree100%.	Punch position and petal size Rivet cap impedance and thickness Block seal size Air tightness	Appearance Polarity Legibility Date Code	Aging voltage and current setting. Temperature setting. Aging time setting.	Setting of CAP and DF%. Voltage and Leakage current setting. Analysis of defective products.	Product appearance confirmation. Quantity confirmation. Label confirmation.
Material Name								
Product Name	Cut Material	Core Package	Soaked Core Package	Bare Product	Semi-Finished Product	Semi-Finished Product	Finished Product	Packed Product

LKS series 85℃ 2000 hours

LHS longer life LHA longer life LHB
↑105℃ ↑105℃
LKS longer life LKA higer current LCS



- **Rohs requirements**
- **85℃ 2000 hours series**
- **Used forswitching power supply, servo, inverter,air conditioners, filter circuits, laser welding machines, consumer electronics, and printed circuit boards and other general industrial products.**

■ Product description

Item	Characteristic					
Operating temperature range	-40℃ ~ +85℃			-25℃ ~ +85℃		
Rated voltage(WV/V)	100V ~ 450V			460V ~ 600V		
Capacitance(CAP/C)	82 ~ 15000μF					
Tolerance(CAP/C)	±20% (25℃, 120Hz)					
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)					
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	100	160 ~ 460		460 ~ 600	
	DF	0.20	0.15		0.15	
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)		100	160 ~ 200	250 ~ 400	460 ~ 600
	Z(-25℃/Z(+25℃)		4			
	Z(-40℃/Z(+25℃)		15	10	8	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6					
	C(-25℃/C(+25℃)≥0.7					

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	4000h	>65000h	2000h	3000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

■ Ripple current correction factor

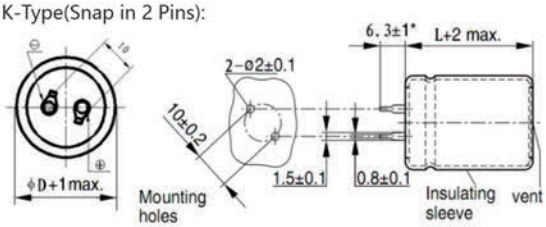
UR(V) \ Temp.℃	40	55	70	85
<160	2.1	1.8	1.5	1.0
≥160	1.7	1.5	1.3	1.0

UR(V) \ Freq.	50/60Hz	120Hz	1KHz	10KHz	≥50KHz
≤50	0.88	1.00	1.15	1.15	1.15
63-100	0.80	1.00	1.30	1.45	1.50
≥160	0.80	1.00	1.30	1.40	1.42

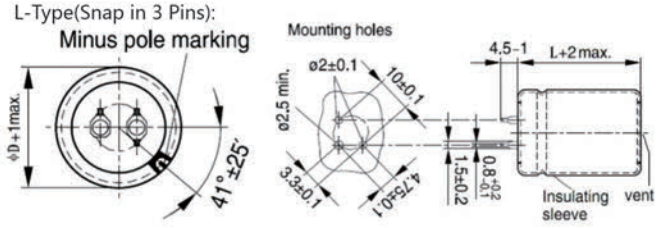
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

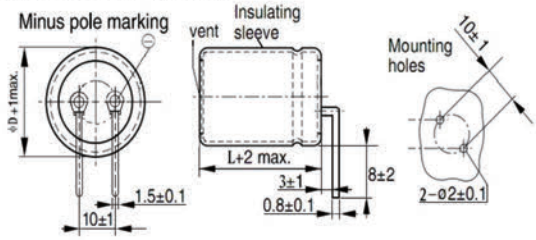
K-Type(Snap in 2 Pins):



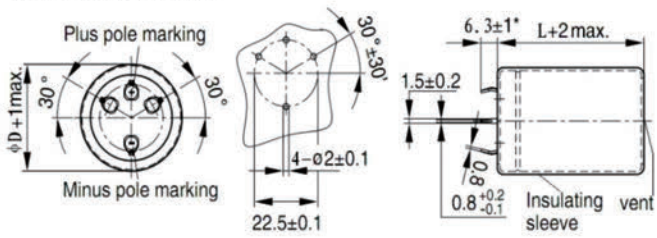
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LKS series:85℃ 2000 hours,standard snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
100 2A (125)	680	0.20	300	230	1.10	22x25	LKS2A681MP025***
	820	0.20	250	190	1.21	22x30	LKS2A821MP030***
	1000	0.20	210	160	1.53	22x35	LKS2A102MP035***
		0.20	210	160	1.45	25x25	LKS2A102MQ025***
	1200	0.20	180	130	1.63	22x35	LKS2A122MP035***
		0.20	180	130	1.61	25x30	LKS2A122MQ030***
	1500	0.20	140	105	1.81	22x40	LKS2A152MP040***
		0.20	140	105	1.72	25x35	LKS2A152MQ035***
		0.20	140	105	1.83	30x25	LKS2A152MR025***
	1800	0.20	120	85	2.12	25x40	LKS2A182MQ040***
		0.20	120	85	2.10	30x30	LKS2A182MR030***
	2200	0.20	100	70	2.23	25x45	LKS2A222MQ045***
		0.20	100	70	2.32	30x35	LKS2A222MR035***
		0.20	100	70	2.51	35x30	LKS2A222MS030***
	2700	0.20	80	55	2.62	25x50	LKS2A272MQ050***
		0.20	80	55	2.70	30x40	LKS2A272MR040***
	3300	0.20	70	47	3.10	30x45	LKS2A332MR045***
		0.20	70	47	3.05	35x35	LKS2A332MS035***
	3900	0.20	60	40	3.44	30x50	LKS2A392MR050***
		0.20	60	40	3.42	35x40	LKS2A392MS040***
	4700	0.20	50	34	4.03	30x65	LKS2A472MR065***
		0.20	50	34	4.03	35x50	LKS2A472MS050***
	5600	0.20	45	32	4.60	30x75	LKS2A562MR075***
		0.20	45	32	4.60	35x55	LKS2A562MS055***
	6800	0.20	42	29	5.10	30x90	LKS2A682MR090***
		0.20	42	29	5.10	35x65	LKS2A682MS065***
	8200	0.20	39	26	6.10	30x100	LKS2A822MR100***
		0.20	39	26	6.10	35x75	LKS2A822MS075***
	10000	0.20	36	23	6.80	35x90	LKS2A103MS090***
		0.20	36	23	6.80	40x70	LKS2A103MB070***
	12000	0.20	33	19	7.90	35x110	LKS2A123MS110***
		0.20	33	19	7.90	40x80	LKS2A123MB080***
	15000	0.20	30	16	8.80	40x100	LKS2A153MB100***
		0.20	30	16	8.80	45x90	LKS2A153MV090***
200 2D (250)	220	0.15	580	500	1.10	22x25	LKS2D221MP025***
	270	0.15	490	400	1.21	22x30	LKS2D271MP030***
	330	0.15	400	330	1.41	22x30	LKS2D331MP030***
		0.15	400	330	1.40	25x25	LKS2D331MQ025***
	390	0.15	330	280	1.61	22x35	LKS2D391MP035***
		0.15	330	280	1.61	25x30	LKS2D391MQ030***
	470	0.15	280	260	1.51	22x35	LKS2D471MP035***
		0.15	280	260	1.81	22x40	LKS2D471MP040***
		0.15	280	230	1.81	25x30	LKS2D471MQ030***
		0.15	280	230	1.81	30x25	LKS2D471MR025***
	560	0.15	235	200	2.03	22x45	LKS2D561MP045***
		0.15	235	200	2.10	30x30	LKS2D561MR030***
		0.15	235	200	2.30	30x40	LKS2D561MR040***
		0.15	235	200	2.02	35x25	LKS2D561MS025***
	680	0.15	195	160	2.11	22x50	LKS2D681MP050***
		0.15	195	160	2.31	25x40	LKS2D681MQ040***
		0.15	195	160	2.42	30x35	LKS2D681MR035***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
200 2D (250)	820	0.15	160	135	2.11	22x60	LKS2D821MP060***
		0.15	160	135	2.31	25x40	LKS2D821MQ040***
		0.15	160	135	2.41	30x30	LKS2D821MR030***
		0.15	160	135	2.53	35x30	LKS2D821MS030***
	1000	0.15	130	110	2.83	22x80	LKS2D102MP080***
		0.15	130	110	2.83	25x60	LKS2D102MQ060***
		0.15	130	110	2.83	30x45	LKS2D102MR045***
		0.15	130	110	2.83	35x35	LKS2D102MS035***
		0.15	130	110	2.83	35x40	LKS2D102MS040***
	1200	0.15	120	90	3.42	30x50	LKS2D122MR050***
		0.15	120	90	3.20	35x40	LKS2D122MS040***
	1500	0.15	105	80	3.80	25x80	LKS2D152MQ080***
		0.15	105	80	3.60	30x50	LKS2D152MR050***
		0.15	110	80	3.70	35x40	LKS2D152MS040***
	1800	0.15	96	80	4.22	30x60	LKS2D182MR060***
		0.15	96	80	4.12	35x50	LKS2D182MS050***
	2200	0.15	88	71	4.62	30x75	LKS2D222MR075***
		0.15	88	71	4.52	35x55	LKS2D222MS055***
	2700	0.15	80	63	5.21	30x85	LKS2D272MR085***
		0.15	80	63	5.11	35x65	LKS2D272MS065***
	3300	0.15	71	55	6.25	30x105	LKS2D332MR105***
		0.15	71	55	6.16	35x75	LKS2D332MS075***
	3900	0.15	63	49	7.15	35x85	LKS2D392MS085***
		0.15	63	49	7.02	40x60	LKS2D392MB060***
	4700	0.15	55	40	7.68	35x105	LKS2D472MS105***
		0.15	55	40	7.53	40x70	LKS2D472MB070***
	5600	0.15	49	33	8.24	40x90	LKS2D562MB090***
		0.15	49	33	8.15	45x80	LKS2D562MV080***
250 2E (300)	180	0.15	1110	890	0.94	22x25	LKS2E181MP025***
	220	0.15	910	730	1.12	22x30	LKS2E221MP030***
		0.15	910	730	1.13	25x25	LKS2E221MQ025***
	270	0.15	750	600	1.23	22x35	LKS2E271MP035***
		0.15	750	600	1.43	25x30	LKS2E271MQ030***
		0.15	750	600	1.43	30x25	LKS2E271MR025***
	330	0.15	610	490	1.52	22x50	LKS2E331MP050***
		0.15	610	490	1.52	25x30	LKS2E331MQ030***
		0.15	610	490	1.53	30x25	LKS2E331MR025***
	390	0.15	520	410	1.62	22x60	LKS2E391MP060***
		0.15	520	410	1.62	25x35	LKS2E391MQ035***
		0.15	520	410	1.64	30x30	LKS2E391MR030***
	470	0.15	430	340	1.82	30x30	LKS2E471MR030***
		0.15	430	340	2.42	35x25	LKS2E471MS025***
	560	0.15	360	290	2.05	25x45	LKS2E561MQ045***
		0.15	360	290	2.05	30x35	LKS2E561MR035***
	680	0.15	300	240	2.35	30x40	LKS2E681MR040***
		0.15	300	240	2.63	35x30	LKS2E681MS030***
	820	0.15	250	200	2.61	25x60	LKS2E821MQ060***
		0.15	250	200	2.60	30x45	LKS2E821MR045***
		0.15	250	200	2.85	35x35	LKS2E821MS035***
	1000	0.15	200	165	3.02	30x50	LKS2E102MR050***
		0.15	200	165	3.20	35x40	LKS2E102MS040***

■ LKS series:85℃ 2000 hours,standard snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	1200	0.15	170	149	3.43	30x55	LKS2E122MR055***
		0.15	170	149	3.43	35x40	LKS2E122MS040***
	1500	0.15	165	135	3.66	30x65	LKS2E152MR065***
		0.15	165	135	3.66	35x45	LKS2E152MS045***
	1800	0.15	160	131	3.91	30x75	LKS2E182MR075***
		0.15	160	131	3.91	35x55	LKS2E182MS055***
	2200	0.15	149	120	4.50	30x85	LKS2E222MR085***
		0.15	149	120	4.40	35x65	LKS2E222MS065***
	2700	0.15	135	112	5.20	30x105	LKS2E272MR105***
		0.15	135	112	5.10	35x75	LKS2E272MS075***
	3300	0.15	131	103	6.00	35x90	LKS2E332MS090***
		0.15	131	103	5.90	40x70	LKS2E332MB070***
	3900	0.15	120	95	6.70	40x80	LKS2E392MB080***
		0.15	120	95	6.60	45x70	LKS2E392MV070***
	4700	0.15	112	86	7.80	40x100	LKS2E472MB100***
		0.15	112	86	7.70	45x80	LKS2E472MV080***
315 2F (365)	100	0.15	2000	1600	0.67	22x25	LKS2F101MP025***
	120	0.15	2000	1600	0.74	22x25	LKS2F121MP025***
	150	0.15	1330	1100	0.86	22x30	LKS2F151MP030***
		0.15	1330	1100	0.85	25x25	LKS2F151MQ025***
	180	0.15	1110	890	0.97	22x35	LKS2F181MP035***
		0.15	1110	890	0.96	25x30	LKS2F181MQ030***
		0.15	1110	890	1.14	30x25	LKS2F181MR025***
	220	0.15	910	730	1.11	25x35	LKS2F221MQ035***
		0.15	910	730	1.11	30x30	LKS2F221MR030***
		0.15	910	730	1.11	35x25	LKS2F221MS025***
	270	0.15	740	600	1.31	30x30	LKS2F271MR030***
		0.15	740	600	1.30	35x25	LKS2F271MS025***
	330	0.15	610	490	1.42	25x45	LKS2F331MQ045***
		0.15	610	490	1.41	30x35	LKS2F331MR035***
	390	0.15	520	410	1.62	30x40	LKS2F391MR040***
		0.15	520	410	1.60	35x30	LKS2F391MS030***
	470	0.15	430	345	1.81	30x45	LKS2F471MR045***
		0.15	430	345	1.81	35x35	LKS2F471MS035***
350 2V (400)	82	0.15	2450	1950	0.65	22x25	LKS2V820MP025***
	100	0.15	2000	1600	0.78	22x25	LKS2V101MP025***
	120	0.15	1670	1330	0.82	25x25	LKS2V121MQ025***
	150	0.15	1330	1070	0.96	22x35	LKS2V151MP035***
		0.15	1330	1070	0.95	25x30	LKS2V151MQ030***
	180	0.15	1110	890	1.12	25x35	LKS2V181MQ035***
		0.15	1110	890	1.12	30x30	LKS2V181MR030***
	220	0.15	920	730	1.22	25x35	LKS2V221MQ035***
		0.15	920	730	1.22	30x30	LKS2V221MR030***
	270	0.15	745	595	1.43	30x35	LKS2V271MR035***
		0.15	745	595	1.43	35x30	LKS2V271MS030***
	330	0.15	610	485	1.63	30x40	LKS2V331MR040***
		0.15	610	485	1.63	35x30	LKS2V331MS030***
	390	0.15	515	410	1.74	30x40	LKS2V391MR040***
		0.15	515	410	1.80	35x35	LKS2V391MS035***
	470	0.15	430	340	2.05	30x45	LKS2V471MR045***
		0.15	430	340	2.00	35x40	LKS2V471MS040***
	560	0.15	360	290	2.31	35x45	LKS2V561MS045***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	680	0.15	360	290	2.62	35x50	LKS2V681MS050***
	820	0.15	280	200	2.82	35x60	LKS2V821MS060***
	1000	0.15	250	180	3.02	30x70	LKS2V102MR070***
		0.15	260	190	2.98	35x55	LKS2V102MS055***
	1200	0.15	230	160	3.50	30x85	LKS2V122MR085***
		0.15	240	170	3.40	35x65	LKS2V122MS065***
	1500	0.15	210	150	4.10	30x90	LKS2V152MR090***
		0.15	220	160	4.00	35x75	LKS2V152MS075***
	1800	0.15	180	130	4.70	35x90	LKS2V182MS090***
		0.15	190	140	4.60	40x70	LKS2V182MB070***
	2200	0.15	160	120	5.40	35x110	LKS2V222MS110***
		0.15	170	130	5.30	40x80	LKS2V222MB080***
	2700	0.15	130	100	5.90	40x100	LKS2V272MB100***
		0.15	140	110	5.80	45x70	LKS2V272MV070***
400 2G (450)	68	0.15	2810	2320	0.55	22x25	LKS2G680MP025***
	82	0.15	2430	1945	0.64	22x25	LKS2G820MP025***
	100	0.15	1995	1590	0.71	22x30	LKS2G101MP030***
		0.15	1995	1590	0.71	25x25	LKS2G101MQ025***
	120	0.15	1660	1330	0.80	22x35	LKS2G121MP035***
		0.15	1330	1065	0.85	25x30	LKS2G121MQ030***
		0.15	1330	1065	0.91	30x25	LKS2G121MR025***
	150	0.15	1330	1065	0.91	22x35	LKS2G151MP035***
		0.15	1330	1065	0.95	25x30	LKS2G151MQ030***
		0.15	1110	890	1.01	30x25	LKS2G151MR025***
	180	0.15	1110	890	1.10	22x40	LKS2G181MP040***
		0.15	1110	890	1.21	25x35	LKS2G181MQ035***
		0.15	910	730	1.00	30x30	LKS2G181MR030***
		0.15	910	730	1.06	35x25	LKS2G181MS025***
	220	0.15	910	730	1.06	22x45	LKS2G221MP045***
		0.15	910	730	1.22	22x50	LKS2G221MP050***
		0.15	910	730	1.22	25x40	LKS2G221MQ040***
		0.15	740	600	1.32	30x35	LKS2G221MR035***
		0.15	740	600	1.32	35x30	LKS2G221MS030***
	270	0.15	740	600	1.41	22x50	LKS2G271MP050***
		0.15	740	600	1.56	25x40	LKS2G271MQ040***
		0.15	610	490	1.53	25x45	LKS2G271MQ045***
		0.15	610	490	1.56	30x40	LKS2G271MR040***
		0.15	610	490	1.56	35x35	LKS2G271MS035***
	330	0.15	610	490	1.62	25x45	LKS2G331MQ045***
		0.15	610	490	1.62	25x50	LKS2G331MQ050***
		0.15	610	490	1.70	30x40	LKS2G331MR040***
		0.15	610	490	1.70	35x35	LKS2G331MS035***
	390	0.15	515	415	1.81	22x65	LKS2G391MP065***
		0.15	515	415	1.81	25x55	LKS2G391MQ055***
		0.15	425	345	1.82	30x50	LKS2G391MR050***
		0.15	425	345	1.82	35x30	LKS2G391MS030***
	470	0.15	425	345	2.04	22x80	LKS2G471MP080***
		0.15	425	345	2.12	25x60	LKS2G471MQ060***
		0.15	425	345	2.40	30x40	LKS2G471MR040***
		0.15	360	290	1.95	30x45	LKS2G471MR045***
		0.15	360	290	2.00	35x35	LKS2G471MS035***
		0.15	360	290	2.00	35x40	LKS2G471MS040***

■ LKS series:85℃ 2000 hours,standard snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	560	0.15	360	290	2.30	22x90	LKS2G561MP090***
		0.15	360	290	2.30	25x70	LKS2G561MQ070***
		0.15	360	290	2.10	30x60	LKS2G561MR060***
		0.15	360	290	2.20	35x45	LKS2G561MS045***
		0.15	350	270	2.30	35x50	LKS2G561MS050***
	680	0.15	300	230	2.55	25x80	LKS2G681MQ080***
		0.15	300	230	2.51	30x60	LKS2G681MR060***
		0.15	300	230	2.41	35x45	LKS2G681MS045***
		0.15	300	230	2.45	35x50	LKS2G681MS050***
	820	0.15	240	200	2.90	25x90	LKS2G821MQ090***
		0.15	240	200	2.85	30x70	LKS2G821MR070***
		0.15	240	200	2.60	35x50	LKS2G821MS050***
		0.15	240	200	2.70	35x55	LKS2G821MS055***
		0.15	240	200	2.80	35x60	LKS2G821MS060***
		0.15	240	200	2.80	35x65	LKS2G821MS065***
	1000	0.15	200	117	3.60	30x100	LKS2G102MR100***
		0.15	200	117	3.60	30x80	LKS2G102MR080***
		0.15	200	117	3.60	40x50	LKS2G102MB050***
		0.15	200	117	3.60	35x55	LKS2G102MS055***
		0.15	200	117	3.60	35x60	LKS2G102MS060***
		0.15	200	117	3.60	35x65	LKS2G102MS065***
		0.15	200	117	3.60	35x70	LKS2G102MS070***
		0.15	200	117	3.60	40x50	LKS2G102MB050***
		0.15	200	117	3.60	45x50	LKS2G102MV050***
	1200	0.15	180	105	4.10	35x90	LKS2G122MS090***
		0.15	180	105	4.10	35x63	LKS2G122MS063***
		0.15	180	105	4.10	35x65	LKS2G122MS065***
		0.15	180	105	4.10	35x70	LKS2G122MS070***
		0.15	180	105	4.10	35x80	LKS2G122MS080***
		0.15	180	105	4.10	35x85	LKS2G122MS085***
		0.15	180	105	4.10	40x60	LKS2G122MB060***
		0.15	180	105	4.10	40x65	LKS2G122MB065***
		0.15	180	105	4.10	40x70	LKS2G122MB070***
		0.15	180	105	4.10	40x80	LKS2G122MB080***
		0.15	180	105	4.10	45x70	LKS2G122MV070***
400 2G (450)	1500	0.15	160	100	4.50	40x65	LKS2G152MB065***
		0.15	160	100	4.50	35x90	LKS2G152MS090***
		0.15	160	100	4.50	35x80	LKS2G152MS080***
		0.15	160	100	4.50	35x85	LKS2G152MS085***
		0.15	160	100	4.50	35x100	LKS2G152MS100***
		0.15	160	100	4.50	40x80	LKS2G152MB080***
		0.15	160	100	4.50	45x70	LKS2G152MV070***
		0.15	160	100	4.50	45x75	LKS2G152MV075***
	1800	0.15	140	90	5.30	35x88	LKS2G182MS088***
		0.15	140	90	5.30	35x90	LKS2G182MS090***
		0.15	140	90	5.30	35x95	LKS2G182MS095***
		0.15	140	90	5.30	35x100	LKS2G182MS100***
		0.15	140	90	5.30	40x80	LKS2G182MB080***
		0.15	140	90	5.30	40x85	LKS2G182MB085***
		0.15	140	90	5.30	40x90	LKS2G182MB090***
		0.15	140	90	5.30	40x100	LKS2G182MB100***
		0.15	140	90	5.30	45x90	LKS2G182MV090***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	2200	0.15	120	85	6.30	35x100	LKS2G222MS100***
		0.15	120	85	6.30	35x110	LKS2G222MS110***
		0.15	120	85	6.30	40x80	LKS2G222MB080***
		0.15	120	85	6.30	40x85	LKS2G222MB085***
		0.15	120	85	6.30	40x90	LKS2G222MB090***
		0.15	120	85	6.30	40x100	LKS2G222MB100***
	2500	0.15	110	80	6.80	40x90	LKS2G252MB090***
		0.15	110	80	6.80	45x80	LKS2G252MV080***
	2700	0.15	100	70	7.10	45x90	LKS2G272MV090***
		0.15	100	70	7.10	45x100	LKS2G272MV100***
	3300	0.15	90	60	7.40	45x100	LKS2G332MV100***
		0.15	90	60	7.40	45x110	LKS2G332MV110***
450 2W (500)	68	0.15	2930	2345	0.57	22x30	LKS2W680MP030***
	82	0.15	2430	1945	0.70	25x35	LKS2W820MQ035***
	100	0.15	1995	1600	0.72	22x35	LKS2W101MP035***
		0.15	1995	1600	0.73	25x30	LKS2W101MQ030***
	120	0.15	1660	1330	0.80	22x40	LKS2W121MP040***
		0.15	1660	1330	0.84	25x35	LKS2W121MQ035***
		0.15	1660	1330	0.84	25x40	LKS2W121MQ040***
		0.15	1660	1330	0.84	30x30	LKS2W121MR030***
	150	0.15	1330	1070	0.89	22x45	LKS2W151MP045***
		0.15	1330	1070	0.95	25x40	LKS2W151MQ040***
		0.15	1330	1070	0.99	30x35	LKS2W151MR035***
		0.15	1330	1070	1.10	35x30	LKS2W151MS030***
	180	0.15	1110	895	1.11	22x50	LKS2W181MP050***
		0.15	1110	895	1.23	25x45	LKS2W181MQ045***
		0.15	1110	895	1.23	30x40	LKS2W181MR040***
		0.15	1110	895	1.23	35x30	LKS2W181MS030***
	220	0.15	915	730	1.32	22x60	LKS2W221MP060***
		0.15	915	730	1.20	25x50	LKS2W221MQ050***
		0.15	915	730	1.32	30x40	LKS2W221MR040***
	270	0.15	740	590	1.40	22x70	LKS2W271MP070***
		0.15	740	590	1.50	25x50	LKS2W271MQ050***
		0.15	740	590	1.50	30x40	LKS2W271MR040***
	330	0.15	610	490	1.71	22x70	LKS2W331MP070***
		0.15	610	490	1.71	25x50	LKS2W331MQ050***
		0.15	610	490	1.55	30x40	LKS2W331MR040***
		0.15	610	490	1.55	35x35	LKS2W331MS035***
	390	0.15	520	415	1.65	25x60	LKS2W391MQ060***
		0.15	520	415	1.65	30x45	LKS2W391MR045***
		0.15	520	415	1.65	35x40	LKS2W391MS040***
	470	0.15	430	342	1.93	25x70	LKS2W471MQ070***
		0.15	430	342	1.93	30x50	LKS2W471MR050***
		0.15	430	342	1.99	35x45	LKS2W471MS045***
	560	0.15	360	320	2.25	25x75	LKS2W561MQ075***
		0.15	360	320	2.25	30x60	LKS2W561MR060***
		0.15	360	360	2.36	35x50	LKS2W561MS050***
	680	0.15	280	240	2.70	25x90	LKS2W681MQ090***
		0.15	280	240	2.70	30x65	LKS2W681MR065***
		0.15	290	230	2.80	35x55	LKS2W681MS055***
	820	0.15	260	210	3.20	30x80	LKS2W821MR080***
		0.15	270	200	3.10	35x60	LKS2W821MS060***

■ LKS series:85℃ 2000 hours,standard snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	1000	0.15	240	180	4.00	30x100	LKS2W102MR100***
		0.15	250	170	3.90	35x65	LKS2W102MS065***
	1200	0.15	220	150	4.30	35x90	LKS2W122MS090***
		0.15	230	140	4.20	40x70	LKS2W122MB070***
	1500	0.15	190	120	4.60	35x90	LKS2W152MS090***
		0.15	200	110	4.50	40x70	LKS2W152MB070***
	1800	0.15	170	90	5.10	35x110	LKS2W182MS110***
		0.15	180	80	5.00	40x80	LKS2W182MB080***
	2200	0.15	150	70	5.50	40x100	LKS2W222MB100***
		0.15	160	60	5.40	45x80	LKS2W222MV080***
500 2H (550)	100	0.15	1995	1600	0.91	25x30	LKS2H101MQ030***
		0.15	1995	1600	0.91	30x25	LKS2H101MR025***
	120	0.15	1665	1330	1.00	30x30	LKS2H121MR030***
		0.15	1665	1330	1.00	35x25	LKS2H121MS025***
	150	0.15	1330	1065	1.21	30x35	LKS2H151MR035***
		0.15	1330	1065	1.21	35x30	LKS2H151MS030***
	180	0.15	1110	890	1.42	30x40	LKS2H181MR040***
		0.15	1110	890	1.31	35x30	LKS2H181MS030***
	220	0.15	910	730	1.62	30x45	LKS2H221MR045***
		0.15	910	730	1.51	35x35	LKS2H221MS035***
	270	0.15	740	595	1.80	30x50	LKS2H271MR050***
		0.15	740	595	1.71	35x40	LKS2H271MS040***
	330	0.15	610	485	2.10	30x55	LKS2H331MR055***
		0.15	610	485	2.00	35x45	LKS2H331MS045***
	390	0.15	520	415	2.30	30x60	LKS2H391MR060***
		0.15	520	415	2.20	35x50	LKS2H391MS050***
	470	0.15	460	370	2.50	30x70	LKS2H471MR070***
		0.15	460	370	2.40	35x55	LKS2H471MS055***
	560	0.15	410	330	2.70	30x80	LKS2H561MR080***
		0.15	410	330	2.60	35x60	LKS2H561MS060***
	680	0.15	360	280	3.00	30x100	LKS2H681MR100***
		0.15	360	280	2.90	35x70	LKS2H681MS070***
	820	0.15	310	240	3.40	35x80	LKS2H821MS080***
		0.15	310	240	3.30	40x65	LKS2H821MB065***
	1000	0.15	270	210	3.80	40x80	LKS2H102MB080***
		0.15	270	210	3.70	45x60	LKS2H102MV060***
	1200	0.15	230	180	4.20	40x90	LKS2H122MB090***
		0.15	230	180	4.10	45x70	LKS2H122MV070***
550 2Y (600)	100	0.15	1330	1065	0.76	25x35	LKS2Y101MQ035***
		0.15	1330	1065	0.76	30x30	LKS2Y101MR030***
	120	0.15	1110	890	0.88	30x35	LKS2Y121MR035***
		0.15	1110	890	0.88	35x30	LKS2Y121MS030***
	150	0.15	910	730	1.00	30x40	LKS2Y151MR040***
		0.15	910	730	1.00	35x35	LKS2Y151MS035***
	180	0.15	740	595	1.10	30x45	LKS2Y181MR045***
		0.15	740	595	1.10	35x35	LKS2Y181MS035***
	220	0.15	610	485	1.30	30x50	LKS2Y221MR050***
		0.15	610	485	1.30	35x40	LKS2Y221MS040***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
550 2Y (600)	270	0.15	520	415	1.50	30x55	LKS2Y271MR055***
		0.15	520	415	1.50	35x45	LKS2Y271MS045***
	330	0.15	460	370	1.80	30x60	LKS2Y331MR060***
		0.15	460	370	1.80	35x50	LKS2Y331MS050***
	390	0.15	410	330	2.00	30x70	LKS2Y391MR070***
		0.15	410	330	2.00	35x55	LKS2Y391MS055***
	470	0.15	360	280	2.30	30x80	LKS2Y471MR080***
		0.15	360	280	2.30	35x60	LKS2Y471MS060***
	560	0.15	310	240	2.60	30x90	LKS2Y561MR090***
		0.15	310	240	2.60	35x70	LKS2Y561MS070***
	680	0.15	270	210	3.00	30x110	LKS2Y681MR110***
		0.15	270	210	2.90	35x80	LKS2Y681MS080***
	820	0.15	230	180	3.30	35x110	LKS2Y821MS110***
		0.15	230	180	3.20	40x80	LKS2Y821MB080***
	1000	0.15	210	150	3.60	40x90	LKS2Y102MB090***
		0.15	210	150	3.50	45x70	LKS2Y102MV070***
	1200	0.15	180	120	4.10	40x100	LKS2Y122MB100***
		0.15	180	120	4.00	45x80	LKS2Y122MV080***
600 2S (650)	82	0.15	1510	1210	0.64	25x40	LKS2S820MQ040***
		0.15	1510	1210	0.64	30x30	LKS2S820MR030***
	100	0.15	1260	980	0.76	25x50	LKS2S101MQ050***
		0.15	1260	980	0.76	30x35	LKS2S101MR035***
	120	0.15	1080	850	0.88	30x40	LKS2S121MR040***
		0.15	1080	850	0.88	35x35	LKS2S121MS035***
	150	0.15	890	690	1.00	30x45	LKS2S151MR045***
		0.15	890	690	1.00	35x40	LKS2S151MS040***
	180	0.15	720	580	1.10	30x50	LKS2S181MR050***
		0.15	720	580	1.10	35x40	LKS2S181MS040***
	220	0.15	580	460	1.30	30x55	LKS2S221MR055***
		0.15	580	460	1.30	35x45	LKS2S221MS045***
	270	0.15	510	410	1.40	30x60	LKS2S271MR060***
		0.15	510	410	1.40	35x50	LKS2S271MS050***
	330	0.15	450	310	1.70	30x70	LKS2S331MR070***
		0.15	450	310	1.70	35x55	LKS2S331MS055***
	390	0.15	400	290	1.90	30x80	LKS2S391MR080***
		0.15	400	290	1.90	35x60	LKS2S391MS060***
	470	0.15	350	260	2.20	30x90	LKS2S471MR090***
		0.15	350	260	2.20	35x65	LKS2S471MS065***
	560	0.15	300	230	2.50	30x100	LKS2S561MR100***
		0.15	300	230	2.50	35x70	LKS2S561MS070***
	680	0.15	260	200	2.90	30x110	LKS2S681MR110***
		0.15	260	200	2.80	35x80	LKS2S681MS080***
	820	0.15	220	170	3.20	35x110	LKS2S821MS110***
		0.15	220	170	3.10	40x90	LKS2S821MB090***
	1000	0.15	200	140	3.50	40x100	LKS2S102MB100***
		0.15	200	140	3.40	45x80	LKS2S102MV080***
	1200	0.15	170	110	3.80	40x110	LKS2S122MB110***
		0.15	170	110	3.60	45x90	LKS2S122MV090***

*** Indicates terminal type, length, and sleeve color.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LKA series 85℃ 3000 hours

LHS longer life LHA longer life LHB
↑105℃ ↑105℃
LKS longer life LKA higer current LRA



- **Rohs requirements**
- **85℃ 3000 hours series**
- **Used forswitching power supply, servo, inverter, laser spot welding machine, consumer electronics, printed circuit boards and other general industrial products.**

■ Product description

Item	Characteristic					
Operating temperature range	-40℃ ~ +85℃			-25℃ ~ +85℃		
Rated voltage(WV/V)	100V ~ 450V			460V ~ 600V		
Capacitance(CAP/C)	68 ~ 15000μF					
Tolerance(CAP/C)	±20% (25℃, 120Hz)					
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)					
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	100	160 ~ 450		460 ~ 600	
	DF	0.20	0.15		0.15	
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)		100	160 ~ 200	250 ~ 400	450 ~ 600
	Z(-25℃/Z(+25℃)		4			
	Z(-40℃/Z(+25℃)		15	10	8	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6					
	C(-25℃/C(+25℃)≥0.7					

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	5000h	>80000h	3000h	4000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

■ Ripple current correction factor

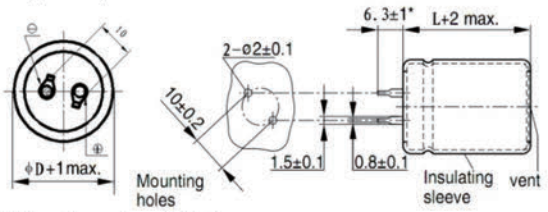
Temp.℃	40	55	70	85
Coefficient	2.3	2.1	1.8	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.15	1.30	1.41

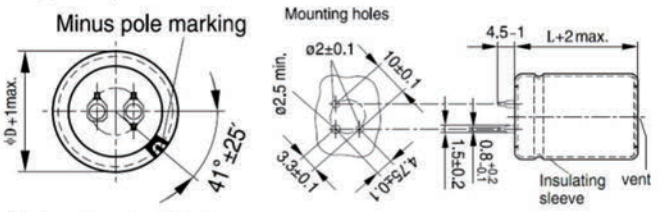
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

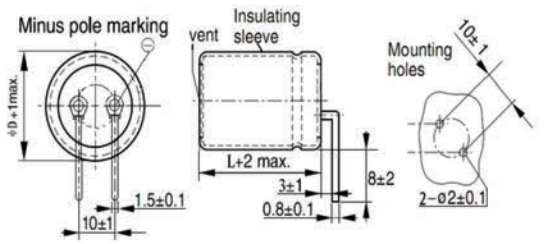
K-Type(Snap in 2 Pins):



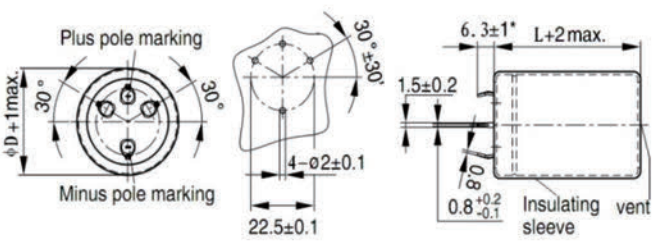
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LKA series:85℃ 3000 hours,standard snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
100 2A (125)	680	0.20	300	230	1.10	22x25	LKA2A681MP025***
	820	0.20	250	190	1.21	22x30	LKA2A821MP030***
	1000	0.20	210	160	1.53	22x35	LKA2A102MP035***
		0.20	210	160	1.45	25x25	LKA2A102MQ025***
	1200	0.20	180	130	1.63	22x35	LKA2A122MP035***
		0.20	180	130	1.61	25x30	LKA2A122MQ030***
	1500	0.20	140	105	1.81	22x40	LKA2A152MP040***
		0.20	140	105	1.72	25x35	LKA2A152MQ035***
		0.20	140	105	1.83	30x25	LKA2A152MR025***
	1800	0.20	120	85	2.12	25x40	LKA2A182MQ040***
		0.20	120	85	2.10	30x30	LKA2A182MR030***
	2200	0.20	100	70	2.23	25x45	LKA2A222MQ045***
		0.20	100	70	2.32	30x35	LKA2A222MR035***
		0.20	100	70	2.51	35x30	LKA2A222MS030***
	2700	0.20	80	55	2.62	25x50	LKA2A272MQ050***
		0.20	80	55	2.70	30x40	LKA2A272MR040***
	3300	0.20	70	47	3.10	30x45	LKA2A332MR045***
		0.20	70	47	3.05	35x35	LKA2A332MS035***
	3900	0.20	60	40	3.44	30x50	LKA2A392MR050***
		0.20	60	40	3.42	35x40	LKA2A392MS040***
	4700	0.20	50	34	4.03	30x65	LKA2A472MR065***
		0.20	50	34	4.03	35x50	LKA2A472MS050***
	5600	0.20	45	32	4.60	30x75	LKA2A562MR075***
		0.20	45	32	4.60	35x55	LKA2A562MS055***
	6800	0.20	42	29	5.10	30x90	LKA2A682MR090***
		0.20	42	29	5.10	35x65	LKA2A682MS065***
	8200	0.20	39	26	6.10	30x100	LKA2A822MR100***
		0.20	39	26	6.10	35x75	LKA2A822MS075***
	10000	0.20	36	23	6.80	35x90	LKA2A103MS090***
		0.20	36	23	6.80	40x70	LKA2A103MB070***
	12000	0.20	33	19	7.90	35x110	LKA2A123MS110***
		0.20	33	19	7.90	40x80	LKA2A123MB080***
	15000	0.20	30	16	8.80	40x100	LKA2A153MB100***
		0.20	30	16	8.80	45x90	LKA2A153MV090***
200 2D (250)	220	0.15	580	500	1.10	22x25	LKA2D221MP025***
	270	0.15	490	400	1.21	22x30	LKA2D271MP030***
	330	0.15	400	330	1.41	22x30	LKA2D331MP030***
		0.15	400	330	1.40	25x25	LKA2D331MQ025***
	390	0.15	330	280	1.61	22x35	LKA2D391MP035***
		0.15	330	280	1.61	25x30	LKA2D391MQ030***
	470	0.15	280	260	1.51	22x35	LKA2D471MP035***
		0.15	280	260	1.81	22x40	LKA2D471MP040***
		0.15	280	230	1.81	25x30	LKA2D471MQ030***
		0.15	280	230	1.81	30x25	LKA2D471MR025***
	560	0.15	235	200	2.03	22x45	LKA2D561MP045***
		0.15	235	200	2.10	30x30	LKA2D561MR030***
		0.15	235	200	2.30	30x40	LKA2D561MR040***
		0.15	235	200	2.02	35x25	LKA2D561MS025***
	680	0.15	195	160	2.11	22x50	LKA2D681MP050***
		0.15	195	160	2.31	25x40	LKA2D681MQ040***
		0.15	195	160	2.42	30x35	LKA2D681MR035***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
200 2D (250)	820	0.15	160	135	2.11	22x60	LKA2D821MP060***
		0.15	160	135	2.31	25x40	LKA2D821MQ040***
		0.15	160	135	2.41	30x30	LKA2D821MR030***
		0.15	160	135	2.53	35x30	LKA2D821MS030***
	1000	0.15	130	110	2.83	22x80	LKA2D102MP080***
		0.15	130	110	2.83	25x60	LKA2D102MQ060***
		0.15	130	110	2.83	30x45	LKA2D102MR045***
		0.15	130	110	2.83	35x35	LKA2D102MS035***
		0.15	130	110	2.83	35x40	LKA2D102MS040***
	1200	0.15	120	90	3.42	30x50	LKA2D122MR050***
		0.15	120	90	3.20	35x40	LKA2D122MS040***
	1500	0.15	105	80	3.80	25x80	LKA2D152MQ080***
		0.15	105	80	3.60	30x50	LKA2D152MR050***
		0.15	110	80	3.70	35x40	LKA2D152MS040***
	1800	0.15	96	80	4.22	30x60	LKA2D182MR060***
		0.15	96	80	4.12	35x50	LKA2D182MS050***
	2200	0.15	88	71	4.62	30x75	LKA2D222MR075***
		0.15	88	71	4.52	35x55	LKA2D222MS055***
	2700	0.15	80	63	5.21	30x85	LKA2D272MR085***
		0.15	80	63	5.11	35x65	LKA2D272MS065***
	3300	0.15	71	55	6.25	30x105	LKA2D332MR105***
		0.15	71	55	6.16	35x75	LKA2D332MS075***
	3900	0.15	63	49	7.15	35x85	LKA2D392MS085***
		0.15	63	49	7.02	40x60	LKA2D392MB060***
	4700	0.15	55	40	7.68	35x105	LKA2D472MS105***
		0.15	55	40	7.53	40x70	LKA2D472MB070***
	5600	0.15	49	33	8.24	40x90	LKA2D562MB090***
		0.15	49	33	8.15	45x80	LKA2D562MV080***
250 2E (300)	180	0.15	1110	890	0.94	22x25	LKA2E181MP025***
	220	0.15	910	730	1.12	22x30	LKA2E221MP030***
		0.15	910	730	1.13	25x25	LKA2E221MQ025***
	270	0.15	750	600	1.23	22x35	LKA2E271MP035***
		0.15	750	600	1.43	25x30	LKA2E271MQ030***
		0.15	750	600	1.43	30x25	LKA2E271MR025***
	330	0.15	610	490	1.52	22x50	LKA2E331MP050***
		0.15	610	490	1.52	25x30	LKA2E331MQ030***
		0.15	610	490	1.53	30x25	LKA2E331MR025***
	390	0.15	520	410	1.62	22x60	LKA2E391MP060***
		0.15	520	410	1.62	25x35	LKA2E391MQ035***
		0.15	520	410	1.62	30x30	LKA2E391MR030***
	470	0.15	430	340	1.82	30x35	LKA2E471MR035***
		0.15	430	340	2.42	35x25	LKA2E471MS025***
	560	0.15	360	290	2.05	25x45	LKA2E561MQ045***
		0.15	360	290	2.05	30x35	LKA2E561MR035***
	680	0.15	300	240	2.35	30x40	LKA2E681MR040***
		0.15	300	240	2.63	35x30	LKA2E681MS030***
	820	0.15	250	200	2.61	25x60	LKA2E821MQ060***
		0.15	250	200	2.60	30x45	LKA2E821MR045***
		0.15	250	200	2.85	35x35	LKA2E821MS035***
	1000	0.15	200	165	3.02	30x50	LKA2E102MR050***
		0.15	200	165	3.20	35x40	LKA2E102MS040***

■ LKA series:85℃ 3000 hours,standard snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	1200	0.15	170	149	3.43	30x55	LKA2E122MR055***
		0.15	170	149	3.43	35x40	LKA2E122MS040***
	1500	0.15	165	135	3.66	30x65	LKA2E152MR065***
		0.15	165	135	3.66	35x45	LKA2E152MS045***
	1800	0.15	160	131	3.91	30x75	LKA2E182MR075***
		0.15	160	131	3.91	35x55	LKA2E182MS055***
	2200	0.15	149	120	4.50	30x85	LKA2E222MR085***
		0.15	149	120	4.40	35x65	LKA2E222MS065***
	2700	0.15	135	112	5.20	30x105	LKA2E272MR105***
		0.15	135	112	5.10	35x75	LKA2E272MS075***
	3300	0.15	131	103	6.00	35x90	LKA2E332MS090***
		0.15	131	103	5.90	40x70	LKA2E332MB070***
	3900	0.15	120	95	6.70	40x80	LKA2E392MB080***
		0.15	120	95	6.60	45x70	LKA2E392MV070***
	4700	0.15	112	86	7.80	40x100	LKA2E472MB100***
		0.15	112	86	7.70	45x80	LKA2E472MV080***
315 2F (365)	100	0.15	2000	1600	0.67	22x25	LKA2F101MP025***
	120	0.15	2000	1600	0.74	22x25	LKA2F121MP025***
	150	0.15	1330	1100	0.86	22x30	LKA2F151MP030***
		0.15	1330	1100	0.85	25x25	LKA2F151MQ025***
	180	0.15	1110	890	0.97	22x35	LKA2F181MP035***
		0.15	1110	890	0.96	25x30	LKA2F181MQ030***
		0.15	1110	890	0.96	30x25	LKA2F181MR025***
	220	0.15	910	730	1.11	25x35	LKA2F221MQ035***
		0.15	910	730	1.11	30x30	LKA2F221MR030***
		0.15	910	730	1.11	35x25	LKA2F221MS025***
	270	0.15	740	600	1.31	30x30	LKA2F271MR030***
		0.15	740	600	1.30	35x25	LKA2F271MS025***
	330	0.15	610	490	1.42	25x45	LKA2F331MQ045***
		0.15	610	490	1.41	30x35	LKA2F331MR035***
	390	0.15	520	410	1.62	30x40	LKA2F391MR040***
		0.15	520	410	1.60	35x30	LKA2F391MS030***
	470	0.15	430	345	1.81	30x45	LKA2F471MR045***
		0.15	430	345	1.81	35x35	LKA2F471MS035***
350 2V (400)	82	0.15	2450	1950	0.65	22x25	LKA2V820MP025***
	100	0.15	2000	1600	0.78	22x25	LKA2V101MP025***
	120	0.15	1670	1330	0.82	25x25	LKA2V121MQ025***
	150	0.15	1330	1070	0.96	22x35	LKA2V151MP035***
		0.15	1330	1070	0.95	25x30	LKA2V151MQ030***
	180	0.15	1110	890	1.12	25x35	LKA2V181MQ035***
		0.15	1110	890	1.12	30x30	LKA2V181MR030***
	220	0.15	920	730	1.22	25x35	LKA2V221MQ035***
		0.15	920	730	1.22	30x30	LKA2V221MR030***
	270	0.15	745	595	1.43	30x35	LKA2V271MR035***
		0.15	745	595	1.43	35x30	LKA2V271MS030***
	330	0.15	610	485	1.63	30x40	LKA2V331MR040***
		0.15	610	485	1.63	35x30	LKA2V331MS030***
	390	0.15	515	410	1.74	30x40	LKA2V391MR040***
		0.15	515	410	1.80	35x35	LKA2V391MS035***
	470	0.15	430	340	2.05	30x45	LKA2V471MR045***
		0.15	430	340	2.00	35x40	LKA2V471MS040***
	560	0.15	360	290	2.31	35x45	LKA2V561MS045***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	680	0.15	360	290	2.62	35x50	LKA2V681MS050***
	820	0.15	280	200	2.82	35x60	LKA2V821MS060***
	1000	0.15	250	180	3.02	30x70	LKA2V102MR070***
		0.15	260	190	2.98	35x55	LKA2V102MS055***
	1200	0.15	230	160	3.50	30x85	LKA2V122MR085***
		0.15	240	170	3.40	35x65	LKA2V122MS065***
	1500	0.15	210	150	4.10	30x90	LKA2V152MR090***
		0.15	220	160	4.00	35x75	LKA2V152MS075***
	1800	0.15	180	130	4.70	35x90	LKA2V182MS090***
		0.15	190	140	4.60	40x70	LKA2V182MB070***
	2200	0.15	160	120	5.40	35x110	LKA2V222MS110***
		0.15	170	130	5.30	40x80	LKA2V222MB080***
	2700	0.15	130	100	5.90	40x100	LKA2V272MB100***
		0.15	140	110	5.80	45x70	LKA2V272MV070***
400 2G (450)	68	0.15	2810	2320	0.55	22x25	LKA2G680MP025***
	82	0.15	2430	1945	0.64	22x25	LKA2G820MP025***
	100	0.15	1995	1590	0.71	22x30	LKA2G101MP030***
		0.15	1995	1590	0.71	25x25	LKA2G101MQ025***
	120	0.15	1660	1330	0.80	22x35	LKA2G121MP035***
		0.15	1660	1330	0.80	25x30	LKA2G121MQ030***
		0.15	1660	1330	0.80	30x25	LKA2G121MR025***
	150	0.15	1330	1065	0.91	22x35	LKA2G151MP035***
		0.15	1330	1065	0.95	25x30	LKA2G151MQ030***
		0.15	1330	1065	0.95	30x25	LKA2G151MR025***
	180	0.15	1110	890	1.10	22x40	LKA2G181MP040***
		0.15	1110	890	1.10	25x35	LKA2G181MQ035***
		0.15	1110	890	1.10	30x30	LKA2G181MR030***
		0.15	1110	890	1.10	35x25	LKA2G181MS025***
	220	0.15	910	730	1.06	22x45	LKA2G221MP045***
		0.15	910	730	1.22	22x50	LKA2G221MP050***
		0.15	910	730	1.22	25x40	LKA2G221MQ040***
		0.15	910	730	1.22	30x35	LKA2G221MR035***
		0.15	910	730	1.22	35x30	LKA2G221MS030***
	270	0.15	740	600	1.41	22x50	LKA2G271MP050***
		0.15	740	600	1.56	25x40	LKA2G271MQ040***
		0.15	740	600	1.56	25x45	LKA2G271MQ045***
		0.15	740	600	1.56	30x40	LKA2G271MR040***
		0.15	740	600	1.56	35x35	LKA2G271MS035***
	330	0.15	610	490	1.62	22x55	LKA2G331MP055***
		0.15	610	490	1.62	25x50	LKA2G331MQ050***
		0.15	610	490	1.70	30x40	LKA2G331MR040***
		0.15	610	490	1.70	35x35	LKA2G331MS035***
	390	0.15	515	415	1.81	22x65	LKA2G391MP065***
		0.15	515	415	1.81	25x55	LKA2G391MQ055***
		0.15	515	415	1.81	30x50	LKA2G391MR050***
		0.15	515	415	1.81	35x30	LKA2G391MS030***
	470	0.15	425	345	2.04	22x75	LKA2G471MP075***
		0.15	425	345	2.12	25x60	LKA2G471MQ060***
		0.15	425	345	2.12	30x40	LKA2G471MR040***
		0.15	425	345	2.12	30x45	LKA2G471MR045***
		0.15	425	345	2.12	35x40	LKA2G471MS040***
		0.15	425	345	2.12	35x35	LKA2G471MS035***

■ LKA series:85℃ 3000 hours,standard snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	560	0.15	360	290	2.30	25x80	LKA2G561MQ080***
		0.15	360	290	2.30	25x70	LKA2G561MQ070***
		0.15	360	290	2.10	30x60	LKA2G561MR060***
		0.15	360	290	2.20	35x45	LKA2G561MS045***
		0.15	350	270	2.30	35x50	LKA2G561MS050***
	680	0.15	300	230	2.55	25x80	LKA2G681MQ080***
		0.15	300	230	2.51	30x60	LKA2G681MR060***
		0.15	300	230	2.41	35x45	LKA2G681MS045***
		0.15	300	230	2.45	35x50	LKA2G681MS050***
	820	0.15	240	200	2.90	25x90	LKA2G821MQ090***
		0.15	240	200	2.85	30x70	LKA2G821MR070***
		0.15	240	200	2.60	35x50	LKA2G821MS050***
		0.15	240	200	2.70	35x55	LKA2G821MS055***
		0.15	240	200	2.80	35x60	LKA2G821MS060***
		0.15	240	200	2.80	35x65	LKA2G821MS065***
	1000	0.15	200	117	3.60	25x110	LKA2G102MQ110***
		0.15	200	117	3.60	30x90	LKA2G102MR090***
		0.15	200	117	3.60	35x55	LKA2G102MS055***
		0.15	200	117	3.60	35x60	LKA2G102MS060***
		0.15	200	117	3.60	35x65	LKA2G102MS065***
		0.15	200	117	3.60	35x70	LKA2G102MS070***
		0.15	200	117	3.60	35x75	LKA2G102MS075***
		0.15	200	117	3.60	40x50	LKA2G102MB050***
		0.15	200	117	3.60	45x50	LKA2G102MV050***
	1200	0.15	180	105	4.10	35x90	LKA2G122MS090***
		0.15	180	105	4.10	35x63	LKA2G122MS063***
		0.15	180	105	4.10	35x65	LKA2G122MS065***
		0.15	180	105	4.10	35x70	LKA2G122MS070***
		0.15	180	105	4.10	35x80	LKA2G122MS080***
		0.15	180	105	4.10	35x85	LKA2G122MS085***
		0.15	180	105	4.10	40x60	LKA2G122MB060***
		0.15	180	105	4.10	40x65	LKA2G122MB065***
		0.15	180	105	4.10	40x70	LKA2G122MB070***
		0.15	180	105	4.10	40x80	LKA2G122MB080***
		0.15	180	105	4.10	45x70	LKA2G122MV070***
400 2G (450)	1500	0.15	160	100	4.50	35x80	LKA2G152MS080***
		0.15	160	100	4.50	35x85	LKA2G152MS085***
		0.15	160	100	4.50	35x90	LKA2G152MS090***
		0.15	160	100	4.50	35x95	LKA2G152MS095***
		0.15	160	100	4.50	35x100	LKA2G152MS100***
		0.15	160	100	4.50	40x80	LKA2G152MB080***
		0.15	160	100	4.50	45x70	LKA2G152MV070***
		0.15	160	100	4.50	45x75	LKA2G152MV075***
	1800	0.15	140	90	5.30	35x90	LKA2G182MS090***
		0.15	140	90	5.30	35x95	LKA2G182MS095***
		0.15	140	90	5.30	35x100	LKA2G182MS0100***
		0.15	140	90	5.30	35x110	LKA2G182MS110***
		0.15	140	90	5.30	40x80	LKA2G182MB080***
		0.15	140	90	5.30	40x85	LKA2G182MB085***
		0.15	140	90	5.30	40x90	LKA2G182MB090***
		0.15	140	90	5.30	40x100	LKA2G182MB100***
		0.15	140	90	5.30	45x90	LKA2G182MV090***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	2200	0.15	120	85	6.30	35x110	LKA2G222MS090***
		0.15	120	85	6.30	40x80	LKA2G222MS080***
		0.15	120	85	6.30	40x85	LKA2G222MB085***
		0.15	120	85	6.30	40x90	LKA2G222MB090***
		0.15	120	85	6.30	40x100	LKA2G222MB100***
		0.15	120	85	6.30	40x110	LKA2G222MB110***
	2500	0.15	110	80	6.80	40x90	LKA2G252MB090***
		0.15	110	80	6.80	45x80	LKA2G252MV080***
	2700	0.15	100	70	7.10	45x90	LKA2G272MV090***
		0.15	100	70	7.10	45x100	LKA2G272MV100***
	3300	0.15	90	60	7.40	45x100	LKA2G332MV100***
		0.15	90	60	7.40	45x110	LKA2G332MV110***
450 2W (500)	68	0.15	2930	2345	0.57	22x30	LKA2W680MP030***
	82	0.15	2430	1945	0.70	25x35	LKA2W820MQ035***
	100	0.15	1995	1600	0.72	22x35	LKA2W101MP035***
		0.15	1995	1600	0.73	25x30	LKA2W101MQ030***
	120	0.15	1660	1330	0.80	22x40	LKA2W121MP040***
		0.15	1660	1330	0.84	25x35	LKA2W121MQ035***
		0.15	1660	1330	0.89	25x40	LKA2W121MQ040***
		0.15	1660	1330	0.95	30x30	LKA2W121MR030***
	150	0.15	1330	1070	0.89	22x45	LKA2W151MP045***
		0.15	1330	1070	0.95	25x40	LKA2W151MQ040***
		0.15	1330	1070	0.99	30x35	LKA2W151MR035***
		0.15	1330	1070	1.10	35x30	LKA2W151MS030***
	180	0.15	1110	895	1.11	22x50	LKA2W181MP050***
		0.15	1110	895	1.23	25x45	LKA2W181MQ045***
		0.15	1110	895	1.10	30x40	LKA2W181MR040***
		0.15	1110	895	1.20	35x30	LKA2W181MS030***
	220	0.15	915	730	1.32	22x60	LKA2W221MP060***
		0.15	915	730	1.20	25x50	LKA2W221MQ050***
		0.15	915	730	1.32	30x40	LKA2W221MR040***
	270	0.15	740	590	1.40	22x70	LKA2W271MP070***
		0.15	740	590	1.50	25x50	LKA2W271MQ050***
		0.15	740	590	1.55	30x40	LKA2W271MR040***
	330	0.15	610	490	1.71	22x70	LKA2W331MP070***
		0.15	610	490	1.71	25x50	LKA2W331MQ050***
		0.15	610	490	1.55	30x40	LKA2W331MR040***
		0.15	610	490	1.65	35x35	LKA2W331MS035***
	390	0.15	520	415	1.65	25x60	LKA2W391MQ060***
		0.15	520	415	1.65	30x45	LKA2W391MR045***
		0.15	520	415	1.90	35x40	LKA2W391MS040***
	470	0.15	430	342	1.93	25x70	LKA2W471MQ070***
		0.15	430	342	2.21	30x50	LKA2W471MR050***
		0.15	430	342	1.99	35x45	LKA2W471MS045***
	560	0.15	360	320	2.25	25x70	LKA2W561MQ070***
		0.15	360	320	2.25	30x60	LKA2W561MR060***
		0.15	360	360	2.36	35x50	LKA2W561MS050***
	680	0.15	280	240	2.70	25x90	LKA2W681MQ090***
		0.15	280	240	2.70	30x65	LKA2W681MR065***
		0.15	290	230	2.80	35x55	LKA2W681MS055***
	820	0.15	260	210	3.20	30x80	LKA2W821MR080***
		0.15	270	200	3.10	35x60	LKA2W821MS060***

■ LKA series:85℃ 3000 hours,standard snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	1000	0.15	240	180	4.00	30x100	LKA2W102MR100***
		0.15	250	170	3.90	35x65	LKA2W102MS065***
	1200	0.15	220	150	4.30	35x90	LKA2W122MS090***
		0.15	230	140	4.20	40x70	LKA2W122MB070***
	1500	0.15	190	120	4.60	35x90	LKA2W152MS090***
		0.15	200	110	4.50	40x70	LKA2W152MB070***
	1800	0.15	170	90	5.10	35x110	LKA2W182MS110***
		0.15	180	80	5.00	40x80	LKA2W182MB080***
	2200	0.15	150	70	5.50	40x100	LKA2W222MB100***
		0.15	160	60	5.40	45x80	LKA2W222MV080***
500 2H (550)	100	0.15	1995	1600	0.91	25x30	LKA2H101MQ030***
		0.15	1995	1600	0.91	30x25	LKA2H101MR025***
	120	0.15	1665	1330	1.00	30x30	LKA2H121MR030***
		0.15	1665	1330	1.00	35x25	LKA2H121MS025***
	150	0.15	1330	1065	1.21	30x35	LKA2H151MR035***
		0.15	1330	1065	1.21	35x30	LKA2H151MS030***
	180	0.15	1110	890	1.42	30x40	LKA2H181MR040***
		0.15	1110	890	1.31	35x30	LKA2H181MS030***
	220	0.15	910	730	1.62	30x45	LKA2H221MR045***
		0.15	910	730	1.51	35x35	LKA2H221MS035***
	270	0.15	740	595	1.80	30x50	LKA2H271MR050***
		0.15	740	595	1.71	35x40	LKA2H271MS040***
	330	0.15	610	485	2.10	30x55	LKA2H331MR055***
		0.15	610	485	2.00	35x45	LKA2H331MS045***
	390	0.15	520	415	2.30	30x60	LKA2H391MR060***
		0.15	520	415	2.20	35x50	LKA2H391MS050***
	470	0.15	460	370	2.50	30x70	LKA2H471MR070***
		0.15	460	370	2.40	35x55	LKA2H471MS055***
	560	0.15	410	330	2.70	30x80	LKA2H561MR080***
		0.15	410	330	2.60	35x60	LKA2H561MS060***
	680	0.15	360	280	3.00	30x100	LKA2H681MR100***
		0.15	360	280	2.90	35x70	LKA2H681MS070***
	820	0.15	310	240	3.40	35x80	LKA2H821MS080***
		0.15	310	240	3.30	40x65	LKA2H821MB065***
	1000	0.15	270	210	3.80	40x80	LKA2H102MB080***
		0.15	270	210	3.70	45x60	LKA2H102MV060***
	1200	0.15	230	180	4.20	40x90	LKA2H122MB090***
		0.15	230	180	4.10	45x70	LKA2H122MV070***
550 2Y (600)	100	0.15	1330	1065	0.76	25x35	LKA2Y101MQ035***
		0.15	1330	1065	0.76	30x30	LKA2Y101MR030***
	120	0.15	1110	890	0.88	30x35	LKA2Y121MR035***
		0.15	1110	890	0.88	35x30	LKA2Y121MS030***
	150	0.15	910	730	1.00	30x40	LKA2Y151MR040***
		0.15	910	730	1.00	35x35	LKA2Y151MS035***
	180	0.15	740	595	1.10	30x45	LKA2Y181MR045***
		0.15	740	595	1.10	35x35	LKA2Y181MS035***
	220	0.15	610	485	1.30	30x50	LKA2Y221MR050***
		0.15	610	485	1.30	35x40	LKA2Y221MS040***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
550 2Y (600)	270	0.15	520	415	1.50	30x55	LKA2Y271MR055***
		0.15	520	415	1.50	35x45	LKA2Y271MS045***
	330	0.15	460	370	1.80	30x60	LKA2Y331MR060***
		0.15	460	370	1.80	35x50	LKA2Y331MS050***
	390	0.15	410	330	2.00	30x70	LKA2Y391MR070***
		0.15	410	330	2.00	35x55	LKA2Y391MS055***
	470	0.15	360	280	2.30	30x80	LKA2Y471MR080***
		0.15	360	280	2.30	35x60	LKA2Y471MS060***
	560	0.15	310	240	2.60	30x90	LKA2Y561MR090***
		0.15	310	240	2.60	35x70	LKA2Y561MS070***
	680	0.15	270	210	3.00	30x110	LKA2Y681MR110***
		0.15	270	210	2.90	35x80	LKA2Y681MS080***
	820	0.15	230	180	3.30	35x110	LKA2Y821MS110***
		0.15	230	180	3.20	40x80	LKA2Y821MB080***
	1000	0.15	210	150	3.60	40x90	LKA2Y102MB090***
		0.15	210	150	3.50	45x70	LKA2Y102MV070***
	1200	0.15	180	120	4.10	40x100	LKA2Y122MB100***
		0.15	180	120	4.00	45x80	LKA2Y122MV080***
600 2S (650)	82	0.15	1510	1210	0.64	25x40	LKA2S820MQ040***
		0.15	1510	1210	0.64	30x30	LKA2S820MR030***
	100	0.15	1260	980	0.76	25x50	LKA2S101MQ050***
		0.15	1260	980	0.76	30x35	LKA2S101MR035***
	120	0.15	1080	850	0.88	30x40	LKA2S121MR040***
		0.15	1080	850	0.88	35x35	LKA2S121MS035***
	150	0.15	890	690	1.00	30x45	LKA2S151MR045***
		0.15	890	690	1.00	35x40	LKA2S151MS040***
	180	0.15	720	580	1.10	30x50	LKA2S181MR050***
		0.15	720	580	1.10	35x40	LKA2S181MS040***
	220	0.15	580	460	1.30	30x55	LKA2S221MR055***
		0.15	580	460	1.30	35x45	LKA2S221MS045***
	270	0.15	510	410	1.40	30x60	LKA2S271MR060***
		0.15	510	410	1.40	35x50	LKA2S271MS050***
	330	0.15	450	310	1.70	30x70	LKA2S331MR070***
		0.15	450	310	1.70	35x55	LKA2S331MS055***
	390	0.15	400	290	1.90	30x80	LKA2S391MR080***
		0.15	400	290	1.90	35x60	LKA2S391MS060***
	470	0.15	350	260	2.20	30x90	LKA2S471MR090***
		0.15	350	260	2.20	35x65	LKA2S471MS065***
	560	0.15	300	230	2.50	30x100	LKA2S561MR100***
		0.15	300	230	2.50	35x70	LKA2S561MS070***
	680	0.15	260	200	2.90	30x110	LKA2S681MR110***
		0.15	260	200	2.80	35x80	LKA2S681MS080***
	820	0.15	220	170	3.20	35x110	LKA2S821MS110***
		0.15	220	170	3.10	40x90	LKA2S821MB090***
	1000	0.15	200	140	3.50	40x100	LKA2S102MB100***
		0.15	200	140	3.40	45x80	LKA2S102MV080***
	1200	0.15	170	110	3.80	40x110	LKA2S122MB110***
		0.15	170	110	3.60	45x90	LKA2S122MV090***

*** Indicates terminal type, length, and sleeve color.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand

The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LKB series 85℃ 5000 hours

LHA longer life LHB longer life LHC
↑ 105℃ ↑ 105℃
LKA longer life LKB higer current LRB

- Rohs requirements
- 85℃ 5000 hours,large size products
- Used for industrial power supplies, inverters, and other industrial products



■ Product description

Item	Characteristic		
Operating temperature range	-40℃ ~ +85℃	-25℃ ~ +85℃	
Rated voltage(WV/V)	350V ~ 450V	460V ~ 500V	
Capacitance(CAP/C)	68 ~ 1800μF		
Tolerance(CAP/C)	±20% (25℃, 120Hz)		
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)		
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	350 ~ 500V	
	DF	0.15	
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	350 ~ 450V	460 ~ 500
	Z(-25℃/Z(+25℃)	4	
	Z(-40℃/Z(+25℃)	8	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6		
	C(-25℃/C(+25℃)≥0.7		

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	6000h	>100000h	5000h	5000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

■ Ripple current correction factor

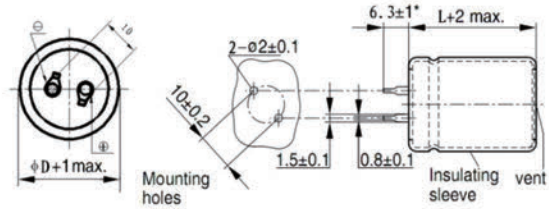
Temp.℃	40	55	70	85
Coefficient	2.3	2.1	1.8	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.16	1.30	1.40

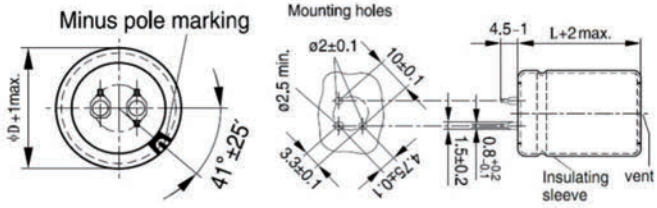
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

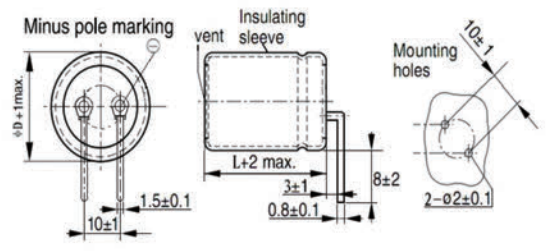
K-Type(Snap in 2 Pins):



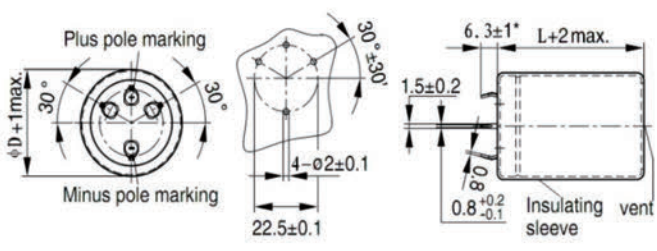
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LKB series:85℃ 5000 hours,large size snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	82	0.15	2329	1941	0.64	22x25	LKB2V820MP025***
	100	0.15	1910	1592	0.8	22x25	LKB2V101MP025***
	120	0.15	1592	1327	0.82	22x30	LKB2V121MP030***
		0.15	1592	1327	0.81	22x25	LKB2V121MP025***
	150	0.15	1274	1062	0.94	22x35	LKB2V151MP035***
		0.15	1274	1062	0.94	25x30	LKB2V151MQ030***
	180	0.15	1062	885	1.1	22x40	LKB2V181MP040***
		0.15	1062	885	1.1	30x25	LKB2V181MR025***
	220	0.15	869	724	1.2	22x45	LKB2V221MP045***
		0.15	869	724	1.2	25x35	LKB2V221MQ035***
		0.15	869	724	1.2	30x30	LKB2V221MR030***
		0.15	869	724	1.3	35x25	LKB2V221MS025***
	270	0.15	708	590	1.4	25x45	LKB2V271MQ045***
		0.15	708	590	1.4	30x35	LKB2V271MR035***
	330	0.15	580	483	1.6	25x50	LKB2V331MQ050***
		0.15	580	483	1.6	35x30	LKB2V331MS030***
	390	0.15	491	409	1.7	30x40	LKB2V391MR040***
		0.15	491	409	1.8	35x35	LKB2V391MS035***
	470	0.15	407	339	2.0	30x45	LKB2V471MR045***
		0.15	407	339	2.0	35x40	LKB2V471MS040***
	560	0.15	342	285	2.3	35x45	LKB2V561MS045***
	680	0.15	642	535	2.6	35x50	LKB2V681MS050***
	820	0.15	234	195	2.8	35x60	LKB2V821MS060***
400 2G (450)	68	0.15	2809	2341	0.55	22x25	LKB2G680MP025***
	82	0.15	2329	1941	0.65	22x25	LKB2G820MP025***
	100	0.15	1910	1592	0.7	22x30	LKB2G101MP030***
		0.15	1910	1592	0.7	25x25	LKB2G101MQ025***
	120	0.15	1592	1327	0.79	22x30	LKB2G121MP030***
	150	0.15	1274	1062	0.9	22x35	LKB2G151MP035***
		0.15	1274	1062	0.89	25x30	LKB2G151MQ030***
	180	0.15	1062	885	1	22x40	LKB2G181MP040***
		0.15	1062	885	1	25x30	LKB2G181MQ030***
	220	0.15	869	724	1.1	22x50	LKB2G221MP050***
		0.15	869	724	1.2	25x40	LKB2G221MQ040***
	270	0.15	708	590	1.3	25x45	LKB2G271MQ045***
		0.15	708	590	1.5	30x30	LKB2G271MR030***
	330	0.15	580	483	1.6	25x45	LKB2G331MQ045***
		0.15	580	483	1.7	30x35	LKB2G331MR035***
	390	0.15	491	409	1.8	35x30	LKB2G391MS030***
		0.15	491	409	1.9	30x40	LKB2G391MR040***
	470	0.15	407	339	2.1	35x35	LKB2G471MS035***
	560	0.15	342	285	2.3	35x40	LKB2G561MS040***
	680	0.15	282	235	2.7	35x45	LKB2G681MS045***
	820	0.15	233	194	3.1	35x50	LKB2G821MS050***
	1000	0.15	128	107	3.7	35x65	LKB2G102MS065***
	1200	0.15	118	98	4.1	35x70	LKB2G122MS070***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (470)	100	0.15	1910	1592	0.71	22x30	LKB2I101MP030***
		0.15	1910	1592	0.72	25x25	LKB2I101MQ025***
	120	0.15	1592	1327	0.81	22x35	LKB2I121MP035***
		0.15	1592	1327	0.82	25x30	LKB2I121MQ030***
	150	0.15	1274	1062	0.96	25x30	LKB2I151MQ030***
	180	0.15	1062	885	1.1	25x35	LKB2I181MQ035***
		0.15	1062	885	1.2	30x30	LKB2I181MR030***
	220	0.15	869	724	1.2	25x40	LKB2I221MQ040***
		0.15	869	724	1.3	30x30	LKB2I221MR030***
	270	0.15	708	590	1.3	25x45	LKB2I271MQ045***
		0.15	708	590	1.4	30x35	LKB2I271MR035***
	330	0.15	580	483	1.7	30x40	LKB2I331MR040***
	390	0.15	491	409	1.8	30x45	LKB2I391MR045***
		0.15	491	409	1.9	35x35	LKB2I391MS035***
	470	0.15	407	339	2.1	30x50	LKB2I471MR050***
		0.15	407	339	2.2	35x40	LKB2I471MS040***
	560	0.15	342	285	2.4	35x45	LKB2I561MS045***
	680	0.15	282	235	2.8	35x50	LKB2I681MS050***
	820	0.15	233	194	3.2	35x60	LKB2I821MS060***
	1000	0.15	128	107	4	40x60	LKB2I102MB060***
450 2W (500)	68	0.15	2809	2341	0.57	22x25	LKB2W680MP025***
	82	0.15	2329	1941	0.68	22x30	LKB2W820MP030***
	100	0.15	1910	1592	0.73	25x25	LKB2W101MQ025***
	120	0.15	1592	1327	0.8	22x35	LKB2W121MP035***
		0.15	1592	1327	0.8	25x30	LKB2W121MQ030***
	150	0.15	1274	1062	0.95	22x45	LKB2W151MP045***
		0.15	1274	1062	0.95	25x35	LKB2W151MQ035***
	180	0.15	1062	885	1.1	25x40	LKB2W181MQ040***
		0.15	1062	885	1.1	30x30	LKB2W181MR030***
	220	0.15	869	724	1.2	25x45	LKB2W221MQ045***
		0.15	869	724	1.3	30x35	LKB2W221MR035***
	270	0.15	708	590	1.5	30x40	LKB2W271MR040***
	330	0.15	576	480	1.7	30x45	LKB2W331MR045***
	390	0.15	491	409	1.9	35x40	LKB2W391MS040***
	470	0.15	407	339	2.2	30x50	LKB2W471MR050***
	560	0.15	342	285	2.4	35x50	LKB2W561MS050***
	680	0.15	282	235	2.8	35x55	LKB2W681MS055***
	820	0.15	233	194	3.2	35x60	LKB2W821MS060***
	1000	0.15	128	107	4.1	35x80	LKB2W102MS080***
		0.15	128	107	4.1	40x65	LKB2W102MB065***
	1200	0.15	103	86	4.8	40x65	LKB2W122MB065***
	1500	0.15	83	69	5.5	40x90	LKB2W152MB090***
		0.15	83	69	5.6	45x80	LKB2W152MV080***
		0.15	83	69	5.6	50x80	LKB2W152MJ080***
	1800	0.15	70	58	6.1	45x100	LKB2W182MV100***
		0.15	70	58	6.1	50x90	LKB2W182MJ090***

■ LKB series:85℃ 5000 hours,large size snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	390	0.15	269	224	1.5	35x50	LKB2H391MS050***
		0.15	269	224	1.5	40x45	LKB2H391MB045***
	470	0.15	222	185	1.9	35x60	LKB2H471MS060***
		0.15	222	185	1.9	40x50	LKB2H471MB050***
		0.15	222	185	1.9	45x40	LKB2H471MV040***
	560	0.15	186	155	2.1	35x60	LKB2H561MS060***
		0.15	186	155	2.1	40x50	LKB2H561MB050***
		0.15	186	155	2.2	45x40	LKB2H561MV040***
	680	0.15	154	128	2.4	35x80	LKB2H681MS080***
		0.15	154	128	2.4	40x70	LKB2H681MB070***
		0.15	154	128	2.4	45x55	LKB2H681MV055***
	820	0.15	127	106	2.6	35x90	LKB2H821MS090***
		0.15	127	106	2.6	40x70	LKB2H821MB070***
	1000	0.15	104	87	3.1	40x80	LKB2H102MB080***
		0.15	104	87	3.1	45x70	LKB2H102MV070***
	1200	0.15	86	72	3.4	40x90	LKB2H122MB090***
		0.15	86	72	3.4	45x80	LKB2H122MV080***
		0.15	86	72	3.4	50x70	LKB2H122MJ070***
	1500	0.15	68	57	3.8	45x100	LKB2H152MV100***
		0.15	68	57	3.8	50x90	LKB2H152MJ090***
	1800	0.15	58	48	4.1	50x105	LKB2H182MJ105***

*** Indicates terminal type, length, and sleeve color.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LKC series 85℃ 8000 hours

LHB ↑105℃ longer life LHC ↑105℃ longer life LHD

LKB longer life **LKC** higer current LCC



- **Rohs requirements**
- **85℃ 8000 hours,large size products**
- **Used for industrial power supplies, inverters, and other industrial products**

■ Product description

Item	Characteristic		
Operating temperature range	-40℃ ~ +85℃	-25℃ ~ +85℃	
Rated voltage(WV/V)	350V ~ 450V	500V	
Capacitance(CAP/C)	68 ~ 1800μF		
Tolerance(CAP/C)	±20% (25℃, 120Hz)		
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)		
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	350 ~ 500V	
	DF	0.15	
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	350 ~ 450V	460 ~ 500
	Z(-25℃/Z(+25℃)	4	
	Z(-40℃/Z(+25℃)	8	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6		
	C(-25℃/C(+25℃)≥0.7		

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	9000h	>150000h	8000h	9000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

■ Ripple current correction factor

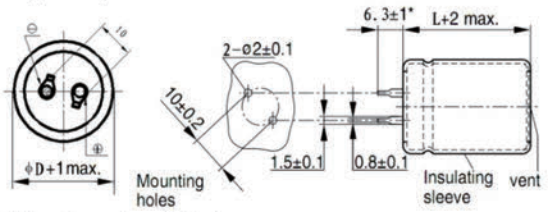
Temp.℃	40	55	70	85
Coefficient	2.3	2.1	1.8	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.16	1.30	1.40

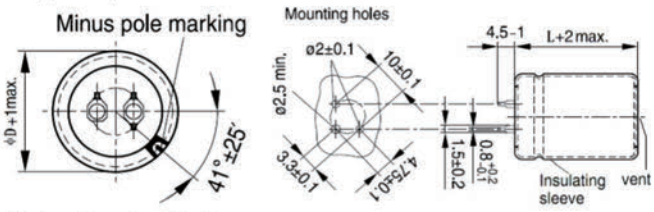
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

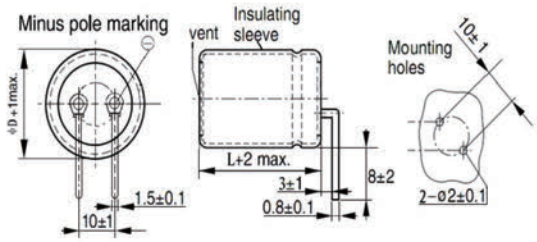
K-Type(Snap in 2 Pins):



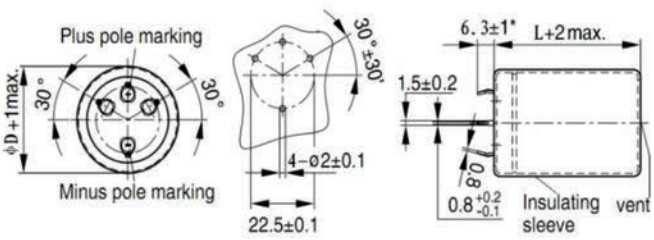
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LKC series:85℃ 8000hours,large size snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	82	0.15	2329	1941	0.64	22x25	LKC2V820MP025***
	100	0.15	1910	1592	0.8	22x25	LKC2V101MP025***
	120	0.15	1592	1327	0.82	22x25	LKC2V121MP025***
		0.15	1592	1327	0.81	22x30	LKC2V121MP030***
	150	0.15	1274	1062	0.94	22x35	LKC2V151MP035***
		0.15	1274	1062	0.94	25x30	LKC2V151MQ030***
	180	0.15	1062	885	1.1	22x40	LKC2V181MP040***
		0.15	1062	885	1.1	30x25	LKC2V181MR025***
	220	0.15	869	724	1.2	22x45	LKC2V221MP045***
		0.15	869	724	1.2	25x35	LKC2V221MQ035***
		0.15	869	724	1.2	30x30	LKC2V221MR030***
		0.15	869	724	1.3	35x25	LKC2V221MS025***
	270	0.15	708	590	1.4	25x45	LKC2V271MQ045***
		0.15	708	590	1.4	30x35	LKC2V271MR035***
	330	0.15	580	483	1.6	25x50	LKC2V331MQ050***
		0.15	580	483	1.6	35x30	LKC2V331MS030***
	390	0.15	491	409	1.7	30x40	LKC2V391MR040***
		0.15	491	409	1.8	35x35	LKC2V391MS035***
	470	0.15	407	339	2.0	30x45	LKC2V471MR045***
		0.15	407	339	2.0	35x40	LKC2V331MS040***
	560	0.15	342	285	2.3	35x45	LKC2V561MS045***
	680	0.15	642	535	2.6	35x50	LKC2V681MS050***
	820	0.15	234	195	2.8	35x60	LKC2V821MS060***
400 2G (450)	68	0.15	2809	2341	0.55	22x25	LKC2G680MP025***
	82	0.15	2329	1941	0.65	22x25	LKC2G820MP025***
	100	0.15	1910	1592	0.7	22x30	LKC2G101MP030***
		0.15	1910	1592	0.7	25x25	LKC2G101MQ025***
	120	0.15	1592	1327	0.79	22x30	LKC2G121MP030***
	150	0.15	1274	1062	0.9	22x35	LKC2G151MP035***
		0.15	1274	1062	0.89	25x30	LKC2G151MQ030***
	180	0.15	1062	885	1	22x40	LKC2G181MP040***
		0.15	1062	885	1	25x30	LKC2G181MQ030***
	220	0.15	869	724	1.1	22x50	LKC2G221MP050***
		0.15	869	724	1.2	25x40	LKC2G221MQ060***
	270	0.15	708	590	1.3	25x45	LKC2G271MQ060***
		0.15	708	590	1.5	30x30	LKC2G271MR040***
	330	0.15	580	483	1.6	25x45	LKC2G331MQ060***
		0.15	580	483	1.7	30x35	LKC2G331MR050***
	390	0.15	491	409	1.8	35x30	LKC2G391MS035***
		0.15	491	409	1.9	30x40	LKC2G391MR050***
	470	0.15	407	339	2.1	35x35	LKC2G471MS040***
	560	0.15	342	285	2.3	35x40	LKC2G561MS045***
	680	0.15	282	235	2.7	35x45	LKC2G681MS050***
	820	0.15	233	194	3.1	35x50	LKC2G821MS060***
	1000	0.15	128	107	3.7	35x65	LKC2G102MS070***
	1200	0.15	118	98	4.1	35x70	LKC2G122MS080***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (470)	100	0.15	1910	1592	0.71	22x30	LKC2I101MP030***
		0.15	1910	1592	0.72	25x25	LKC2I101MQ025***
	120	0.15	1592	1327	0.81	22x35	LKC2I121MP035***
		0.15	1592	1327	0.82	25x30	LKC2I121MQ030***
	150	0.15	1274	1062	0.96	25x30	LKC2I151MQ030***
	180	0.15	1062	885	1.1	25x35	LKC2I181MQ035***
		0.15	1062	885	1.2	30x30	LKC2I181MR030***
	220	0.15	869	724	1.2	25x40	LKC2I221MQ010***
		0.15	869	724	1.3	30x30	LKC2I221MR030***
	270	0.15	708	590	1.3	25x45	LKC2I271MQ045***
		0.15	708	590	1.4	30x35	LKC2I271MR035***
	330	0.15	580	483	1.7	30x40	LKC2I331MR040***
	390	0.15	491	409	1.8	30x45	LKC2I391MR045***
		0.15	491	409	1.9	35x35	LKC2I391MS035***
	470	0.15	407	339	2.1	30x50	LKC2I471MR050***
		0.15	407	339	2.2	35x40	LKC2I471MS040***
	560	0.15	342	285	2.4	35x45	LKC2I561MS045***
	680	0.15	282	235	2.8	35x50	LKC2I681MS050***
	820	0.15	233	194	3.2	35x60	LKC2I821MS060***
	1000	0.15	128	107	4	40x60	LKC2I102MB060***
450 2W (500)	68	0.15	2809	2341	0.57	22x25	LKC2W680MP025***
	82	0.15	2329	1941	0.68	22x30	LKC2W820MP030***
	100	0.15	1910	1592	0.73	25x25	LKC2W101MQ025***
	120	0.15	1592	1327	0.8	22x35	LKC2W121MP035***
		0.15	1592	1327	0.8	25x30	LKC2W121MQ030***
	150	0.15	1274	1062	0.95	22x45	LKC2W151MP045***
		0.15	1274	1062	0.95	25x35	LKC2W151MQ035***
	180	0.15	1062	885	1.1	25x40	LKC2W181MQ040***
		0.15	1062	885	1.1	30x30	LKC2W181MR030***
	220	0.15	869	724	1.2	25x45	LKC2W221MQ045***
		0.15	869	724	1.3	30x35	LKC2W221MR035***
	270	0.15	708	590	1.5	30x40	LKC2W271MR040***
	330	0.15	576	480	1.7	30x45	LKC2W331MR045***
	390	0.15	491	409	1.9	35x40	LKC2W391MS040***
	470	0.15	407	339	2.2	30x50	LKC2W471MR050***
	560	0.15	342	285	2.4	35x50	LKC2W561MS050***
	680	0.15	282	235	2.8	35x55	LKC2W681MS055***
	820	0.15	233	194	3.2	35x60	LKC2W821MS060***
	1000	0.15	128	107	4.1	35x80	LKC2W102MS080***
		0.15	128	107	4.1	40x65	LKC2W102MB065***
	1200	0.15	103	86	4.8	40x65	LKC2W122MB065***
	1500	0.15	83	69	5.5	40x90	LKC2W152MB090***
		0.15	83	69	5.6	45x80	LKC2W152MV080***
		0.15	83	69	5.6	50x80	LKC2W152MJ080***
	1800	0.15	70	58	6.1	45x100	LKC2W182MV100***
		0.15	70	58	6.1	50x90	LKC2W182MJ090***

■ LKC series:85℃ 8000hours,large size snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	390	0.15	269	224	1.5	35x50	LKC2H391MS050***
		0.15	269	224	1.5	40x45	LKC2H391MB045***
	470	0.15	222	185	1.9	35x60	LKC2H471MS060***
		0.15	222	185	1.9	40x50	LKC2H471MB050***
		0.15	222	185	1.9	45x40	LKC2H471MV040***
	560	0.15	186	155	2.1	35x60	LKC2H561MS060***
		0.15	186	155	2.1	40x50	LKC2H561MB050***
		0.15	186	155	2.2	45x40	LKC2H561MV040***
	680	0.15	154	128	2.4	35x80	LKC2H681MS080***
		0.15	154	128	2.4	40x70	LKC2H681MB070***
		0.15	154	128	2.4	45x55	LKC2H681MV060***
	820	0.15	127	106	2.6	35x90	LKC2H821MS090***
		0.15	127	106	2.6	40x70	LKC2H821MB070***
	1000	0.15	104	87	3.1	40x80	LKC2H102MB080***
		0.15	104	87	3.1	45x70	LKC2H102MV070***
	1200	0.15	86	72	3.4	40x90	LKC2H122MB090***
		0.15	86	72	3.4	45x80	LKC2H122MV080***
		0.15	86	72	3.4	50x70	LKC2H122MJ070***
	1500	0.15	68	57	3.8	45x100	LKC2H152MV100***
		0.15	68	57	3.8	50x90	LKC2H152MJ090***
	1800	0.15	58	48	4.1	50x110	LKC2H182MJ110***

*** Indicates terminal type, length, and sleeve color.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
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LKD series 85℃ 10000 hours

LHC → longer life → LHD → longer life → LHE
↑ 105℃ ↑ 105℃
LKC → longer life → LKD → higer current → LCD



- **Rohs requirements**
- **85℃ 10000 hours,large size products**
- **Used for industrial power supplies, inverters, and other industrial products**

■ Product description

Item	Characteristic		
Operating temperature range	-40℃ ~ +85℃	-25℃ ~ +85℃	
Rated voltage(WV/V)	350V ~ 450V	500V	
Capacitance(CAP/C)	68 ~ 1800μF		
Tolerance(CAP/C)	±20% (25℃, 120Hz)		
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)		
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	350 ~ 500V	
	DF	0.15	
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	350 ~ 450V	460 ~ 500
	Z(-25℃/Z(+25℃)	4	
	Z(-40℃/Z(+25℃)	8	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6		
	C(-25℃/C(+25℃)≥0.7		

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	12000h	>180000h	10000h	10000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

■ Ripple current correction factor

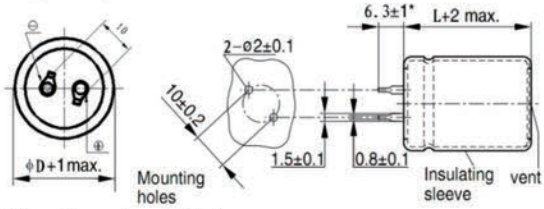
Temp.℃	40	55	70	85
Coefficient	2.3	2.1	1.8	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.16	1.30	1.40

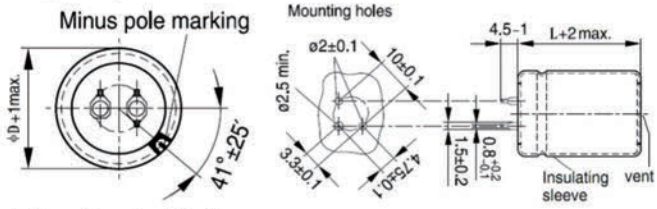
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

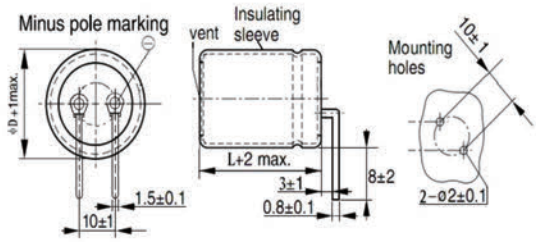
K-Type(Snap in 2 Pins):



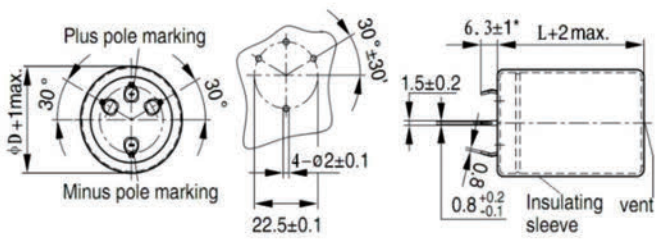
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LKD series:85℃ 10000hours,large size snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	82	0.15	2329	1941	0.64	22x50	LKD2V820MP050***
	100	0.15	1910	1592	0.8	22x50	LKD2V101MP050***
	120	0.15	1592	1327	0.82	22x50	LKD2V121MP050***
		0.15	1592	1327	0.81	22x60	LKD2V121MP060***
	150	0.15	1274	1062	0.94	22x50	LKD2V151MP050***
		0.15	1274	1062	0.94	25x50	LKD2V151MQ050***
	180	0.15	1062	885	1.1	22x60	LKD2V181MP060***
		0.15	1062	885	1.1	30x35	LKD2V181MR035***
	220	0.15	869	724	1.2	22x60	LKD2V221MP060***
		0.15	869	724	1.2	25x50	LKD2V221MQ050***
		0.15	869	724	1.2	30x40	LKD2V221MR040***
		0.15	869	724	1.3	35x30	LKD2V221MS030***
	270	0.15	708	590	1.4	25x65	LKD2V271MQ065***
		0.15	708	590	1.4	30x45	LKD2V271MR045***
	330	0.15	580	483	1.6	25x70	LKD2V331MQ070***
		0.15	580	483	1.6	35x35	LKD2V331MS035***
	390	0.15	491	409	1.7	30x50	LKD2V391MR050***
		0.15	491	409	1.8	35x40	LKD2V391MS040***
	470	0.15	407	339	2.0	30x50	LKD2V471MR050***
		0.15	407	339	2.0	35x45	LKD2V331MS045***
	560	0.15	342	285	2.3	35x50	LKD2V561MS050***
	680	0.15	642	535	2.6	35x60	LKD2V681MS060***
	820	0.15	234	195	2.8	35x60	LKD2V821MS060***
400 2G (450)	68	0.15	2809	2341	0.55	22x50	LKD2G680MP050***
	82	0.15	2329	1941	0.65	22x50	LKD2G820MP050***
	100	0.15	1910	1592	0.7	22x50	LKD2G101MP050***
		0.15	1910	1592	0.7	25x50	LKD2G101MQ050***
	120	0.15	1592	1327	0.79	22x50	LKD2G121MP050***
	150	0.15	1274	1062	0.9	22x50	LKD2G151MP050***
		0.15	1274	1062	0.89	25x50	LKD2G121MQ050***
	180	0.15	1062	885	1	22x60	LKD2G181MP060***
		0.15	1062	885	1	25x50	LKD2G181MQ050***
	220	0.15	869	724	1.1	22x60	LKD2G221MP060***
		0.15	869	724	1.2	25x60	LKD2G221MQ060***
	270	0.15	708	590	1.3	25x60	LKD2G271MQ060***
		0.15	708	590	1.5	30x40	LKD2G271MR040***
	330	0.15	580	483	1.6	25x60	LKD2G331MQ060***
		0.15	580	483	1.7	30x50	LKD2G331MR050***
	390	0.15	491	409	1.8	35x35	LKD2G391MS035***
		0.15	491	409	1.9	30x50	LKD2G391MR050***
	470	0.15	407	339	2.1	35x40	LKD2G471MS040***
	560	0.15	342	285	2.3	35x45	LKD2G561MS045***
	680	0.15	282	235	2.7	35x50	LKD2G681MS050***
	820	0.15	233	194	3.1	35x60	LKD2G821MS060***
	1000	0.15	128	107	3.7	35x70	LKD2G102MS070***
	1200	0.15	118	98	4.1	35x80	LKD2G122MS080***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (470)	100	0.15	1910	1592	0.71	22x50	LKD2I101MP050***
		0.15	1910	1592	0.72	25x40	LKD2I101MQ040***
	120	0.15	1592	1327	0.81	22x50	LKD2I121MP050***
		0.15	1592	1327	0.82	25x50	LKD2I121MQ050***
	150	0.15	1274	1062	0.96	25x50	LKD2I151MQ050***
	180	0.15	1062	885	1.1	25x50	LKD2I181MQ050***
		0.15	1062	885	1.2	30x40	LKD2I181MR040***
	220	0.15	869	724	1.2	25x50	LKD2I221MQ050***
		0.15	869	724	1.3	30x40	LKD2I221MR040***
	270	0.15	708	590	1.3	25x50	LKD2I271MQ050***
		0.15	708	590	1.4	30x50	LKD2I271MR050***
	330	0.15	580	483	1.7	30x50	LKD2I331MR050***
	390	0.15	491	409	1.8	30x50	LKD2I391MR050***
		0.15	491	409	1.9	35x40	LKD2I391MS040***
	470	0.15	407	339	2.1	30x60	LKD2I471MR060***
		0.15	407	339	2.2	35x40	LKD2I471MS040***
	560	0.15	342	285	2.4	35x50	LKD2I561MS050***
	680	0.15	282	235	2.8	35x60	LKD2I681MS060***
	820	0.15	233	194	3.2	35x70	LKD2I821MS070***
	1000	0.15	128	107	4	40x60	LKD2I102MB060***
450 2W (500)	68	0.15	2809	2341	0.57	22x40	LKD2W680MP040***
	82	0.15	2329	1941	0.68	22x50	LKD2W820MP050***
	100	0.15	1910	1592	0.73	25x40	LKD2W101MQ040***
	120	0.15	1592	1327	0.8	22x50	LKD2W121MP050***
		0.15	1592	1327	0.8	25x50	LKD2W121MQ050***
	150	0.15	1274	1062	0.95	22x50	LKD2W151MP050***
		0.15	1274	1062	0.95	25x50	LKD2W151MQ050***
	180	0.15	1062	885	1.1	25x50	LKD2W181MQ050***
		0.15	1062	885	1.1	30x30	LKD2W181MR030***
	220	0.15	869	724	1.2	25x60	LKD2W221MQ060***
		0.15	869	724	1.3	30x45	LKD2W221MR045***
	270	0.15	708	590	1.5	30x45	LKD2W271MR045***
	330	0.15	576	480	1.7	30x50	LKD2W331MR050***
	390	0.15	491	409	1.9	35x40	LKD2W391MS040***
	470	0.15	407	339	2.2	30x60	LKD2W471MR060***
	560	0.15	342	285	2.4	35x50	LKD2W561MS050***
	680	0.15	282	235	2.8	35x60	LKD2W681MS060***
	820	0.15	233	194	3.2	35x70	LKD2W821MS070***
	1000	0.15	128	107	4.1	35x80	LKD2W102MS080***
		0.15	128	107	4.1	40x70	LKD2W102MB070***
	1200	0.15	103	86	4.8	40x70	LKD2W122MB070***
	1500	0.15	83	69	5.5	40x90	LKD2W152MB090***
		0.15	83	69	5.6	45x80	LKD2W152MV080***
		0.15	83	69	5.6	50x80	LKD2W152MJ080***
	1800	0.15	70	58	6.1	45x100	LKD2W182MV100***
		0.15	70	58	6.1	50x90	LKD2W182MJ090***

■ LKD series:85℃ 10000hours,large size snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	390	0.15	269	224	1.5	35x50	LKD2H391MS050***
		0.15	269	224	1.5	40x45	LKD2H391MB045***
	470	0.15	222	185	1.9	35x60	LKD2H471MS060***
		0.15	222	185	1.9	40x50	LKD2H471MB050***
		0.15	222	185	1.9	45x40	LKD2H471MV040***
	560	0.15	186	155	2.1	35x60	LKD2H561MS060***
		0.15	186	155	2.1	40x50	LKD2H561MB050***
		0.15	186	155	2.2	45x40	LKD2H561MV040***
	680	0.15	154	128	2.4	35x80	LKD2H681MS080***
		0.15	154	128	2.4	40x70	LKD2H681MB070***
		0.15	154	128	2.4	45x60	LKD2H681MV060***
	820	0.15	127	106	2.6	35x90	LKD2H821MS090***
		0.15	127	106	2.6	40x70	LKD2H821MB070***
	1000	0.15	104	87	3.1	40x80	LKD2H102MB080***
		0.15	104	87	3.1	45x70	LKD2H102MV070***
	1200	0.15	86	72	3.4	40x90	LKD2H122MB090***
		0.15	86	72	3.4	45x80	LKD2H122MV080***
		0.15	86	72	3.4	50x70	LKD2H122MJ070***
	1500	0.15	68	57	3.8	45x100	LKD2H152MV100***
		0.15	68	57	3.8	50x90	LKD2H152MJ090***
	1800	0.15	58	48	4.1	50x115	LKD2H182MJ110***

*** Indicates terminal type, length, and sleeve color.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LKE series 85℃ 12000 hours

LHC longer life LHD longer life LHE (↑105℃)
LKC longer life LKD longer life LKE (↑105℃)



- Rohs requirements
- 85℃ 12000 hours,large size products
- Used for industrial power supplies, inverters, and other industrial products

■ Product description

Item	Characteristic		
Operating temperature range	-40℃ ~ +85℃	-25℃ ~ +85℃	
Rated voltage(WV/V)	350V ~ 450V	500V	
Capacitance(CAP/C)	68 ~ 1800μF		
Tolerance(CAP/C)	±20% (25℃, 120Hz)		
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)		
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	350 ~ 500V	
	DF	0.15	
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	350 ~ 450V	460 ~ 500
	Z(-25℃/Z(+25℃)	4	
	Z(-40℃/Z(+25℃)	8	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6		
	C(-25℃/C(+25℃)≥0.7		

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	15000h	>200000h	12000h	12000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

■ Ripple current correction factor

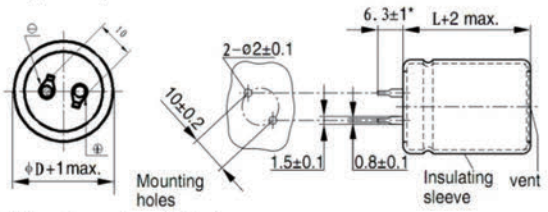
Temp.℃	40	55	70	85
Coefficient	2.3	2.1	1.8	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.16	1.30	1.40

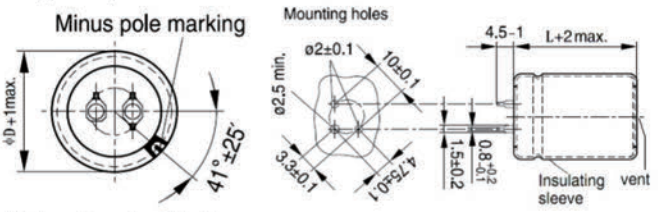
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

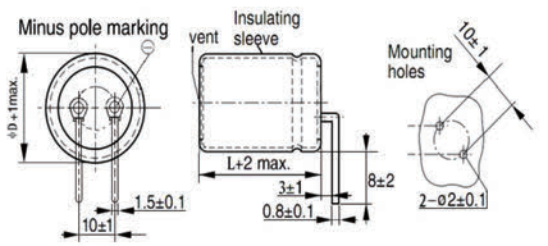
K-Type(Snap in 2 Pins):



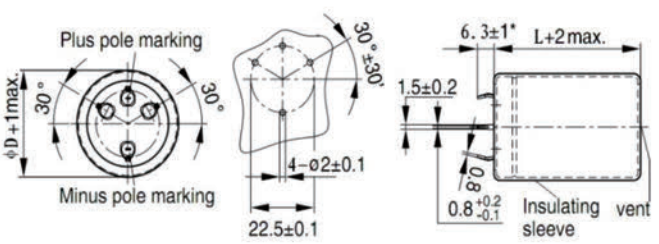
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LKE series:85℃ 12000 hours,large size snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	82	0.15	2329	1941	0.64	22x50	LKE2V820MP050***
	100	0.15	1910	1592	0.8	22x50	LKE2V101MP050***
	120	0.15	1592	1327	0.82	22x50	LKE2V121MP050***
		0.15	1592	1327	0.81	22x60	LKE2V121MP060***
	150	0.15	1274	1062	0.94	22x50	LKE2V151MP050***
		0.15	1274	1062	0.94	25x50	LKE2V151MQ050***
	180	0.15	1062	885	1.1	22x60	LKE2V181MP060***
		0.15	1062	885	1.1	30x35	LKE2V181MR035***
	220	0.15	869	724	1.2	22x60	LKE2V221MP060***
		0.15	869	724	1.2	25x50	LKE2V221MQ050***
		0.15	869	724	1.2	30x40	LKE2V221MR040***
		0.15	869	724	1.3	35x30	LKE2V221MS030***
	270	0.15	708	590	1.4	25x65	LKE2V271MQ065***
		0.15	708	590	1.4	30x45	LKE2V271MR045***
	330	0.15	580	483	1.6	25x70	LKE2V331MQ070***
		0.15	580	483	1.6	35x35	LKE2V331MS035***
	390	0.15	491	409	1.7	30x50	LKE2V391MR050***
		0.15	491	409	1.8	35x40	LKE2V391MS040***
	470	0.15	407	339	2.0	30x50	LKE2V471MR050***
		0.15	407	339	2.0	35x45	LKE2V331MS045***
	560	0.15	342	285	2.3	35x50	LKE2V561MS050***
	680	0.15	642	535	2.6	35x60	LKE2V681MS060***
	820	0.15	234	195	2.8	35x60	LKE2V821MS060***
400 2G (450)	68	0.15	2809	2341	0.55	22x50	LKE2G680MP050***
	82	0.15	2329	1941	0.65	22x50	LKE2G820MP050***
	100	0.15	1910	1592	0.7	22x50	LKE2G101MP050***
		0.15	1910	1592	0.7	25x50	LKE2G101MQ050***
	120	0.15	1592	1327	0.79	22x50	LKE2G121MP050***
	150	0.15	1274	1062	0.9	22x50	LKE2G151MP050***
		0.15	1274	1062	0.89	25x50	LKE2G121MQ050***
	180	0.15	1062	885	1	22x60	LKE2G181MP060***
		0.15	1062	885	1	25x50	LKE2G181MQ050***
	220	0.15	869	724	1.1	22x60	LKE2G221MP060***
		0.15	869	724	1.2	25x60	LKE2G221MQ060***
	270	0.15	708	590	1.3	25x60	LKE2G271MQ060***
		0.15	708	590	1.5	30x40	LKE2G271MR040***
	330	0.15	580	483	1.6	25x60	LKE2G331MQ060***
		0.15	580	483	1.7	30x50	LKE2G331MR050***
	390	0.15	491	409	1.8	35x35	LKE2G391MS035***
		0.15	491	409	1.9	30x50	LKE2G391MR050***
	470	0.15	407	339	2.1	35x40	LKE2G471MS040***
	560	0.15	342	285	2.3	35x45	LKE2G561MS045***
	680	0.15	282	235	2.7	35x50	LKE2G681MS050***
	820	0.15	233	194	3.1	35x60	LKE2G821MS060***
	1000	0.15	128	107	3.7	35x70	LKE2G102MS070***
	1200	0.15	118	98	4.1	35x80	LKE2G122MS080***

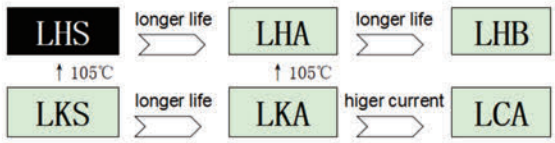
WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (470)	100	0.15	1910	1592	0.71	22x50	LKE2I101MP050***
		0.15	1910	1592	0.72	25x40	LKE2I101MQ040***
	120	0.15	1592	1327	0.81	22x50	LKE2I121MP050***
		0.15	1592	1327	0.82	25x50	LKE2I121MQ050***
	150	0.15	1274	1062	0.96	25x50	LKE2I151MQ050***
	180	0.15	1062	885	1.1	25x50	LKE2I181MQ050***
		0.15	1062	885	1.2	30x40	LKE2I181MR040***
	220	0.15	869	724	1.2	25x50	LKE2I221MQ050***
		0.15	869	724	1.3	30x40	LKE2I221MR040***
	270	0.15	708	590	1.3	25x50	LKE2I271MQ050***
		0.15	708	590	1.4	30x50	LKE2I271MR050***
	330	0.15	580	483	1.7	30x50	LKE2I331MR050***
	390	0.15	491	409	1.8	30x50	LKE2I391MR050***
		0.15	491	409	1.9	35x40	LKE2I391MS040***
	470	0.15	407	339	2.1	30x60	LKE2I471MR060***
		0.15	407	339	2.2	35x40	LKE2I471MS040***
	560	0.15	342	285	2.4	35x50	LKE2I561MS050***
	680	0.15	282	235	2.8	35x60	LKE2I681MS060***
	820	0.15	233	194	3.2	35x70	LKE2I821MS070***
	1000	0.15	128	107	4	40x60	LKE2I102MB060***
450 2W (500)	68	0.15	2809	2341	0.57	22x40	LKE2W680MP040***
	82	0.15	2329	1941	0.68	22x50	LKE2W820MP050***
	100	0.15	1910	1592	0.73	25x40	LKE2W101MQ040***
	120	0.15	1592	1327	0.8	22x50	LKE2W121MP050***
		0.15	1592	1327	0.8	25x50	LKE2W121MQ050***
	150	0.15	1274	1062	0.95	22x50	LKE2W151MP050***
		0.15	1274	1062	0.95	25x50	LKE2W151MQ050***
	180	0.15	1062	885	1.1	25x50	LKE2W181MQ050***
		0.15	1062	885	1.1	30x30	LKE2W181MR030***
	220	0.15	869	724	1.2	25x60	LKE2W221MQ060***
		0.15	869	724	1.3	30x45	LKE2W221MR045***
	270	0.15	708	590	1.5	30x45	LKE2W271MR045***
	330	0.15	576	480	1.7	30x50	LKE2W331MR050***
	390	0.15	491	409	1.9	35x40	LKE2W391MS040***
	470	0.15	407	339	2.2	30x60	LKE2W471MR060***
	560	0.15	342	285	2.4	35x50	LKE2W561MS050***
	680	0.15	282	235	2.8	35x60	LKE2W681MS060***
	820	0.15	233	194	3.2	35x70	LKE2W821MS070***
	1000	0.15	128	107	4.1	35x80	LKE2W102MS080***
		0.15	128	107	4.1	40x70	LKE2W102MB070***
	1200	0.15	103	86	4.8	40x70	LKE2W122MB070***
	1500	0.15	83	69	5.5	40x90	LKE2W152MB090***
		0.15	83	69	5.6	45x80	LKE2W152MV080***
		0.15	83	69	5.6	50x80	LKE2W152MJ080***
	1800	0.15	70	58	6.1	45x100	LKE2W182MV100***
		0.15	70	58	6.1	50x90	LKE2W182MJ090***

■LKE series:85℃ 12000 hours,large size snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	390	0.15	269	224	1.5	35x50	LKE2H391MS050***
		0.15	269	224	1.5	40x45	LKE2H391MB045***
	470	0.15	222	185	1.9	35x60	LKE2H471MS060***
		0.15	222	185	1.9	40x50	LKE2H471MB050***
		0.15	222	185	1.9	45x40	LKE2H471MV040***
	560	0.15	186	155	2.1	35x60	LKE2H561MS060***
		0.15	186	155	2.1	40x50	LKE2H561MB050***
		0.15	186	155	2.2	45x40	LKE2H561MV040***
	680	0.15	154	128	2.4	35x80	LKE2H681MS080***
		0.15	154	128	2.4	40x70	LKE2H681MB070***
		0.15	154	128	2.4	45x60	LKE2H681MV060***
	820	0.15	127	106	2.6	35x90	LKE2H821MS090***
		0.15	127	106	2.6	40x70	LKE2H821MB070***
	1000	0.15	104	87	3.1	40x80	LKE2H102MB080***
		0.15	104	87	3.1	45x70	LKE2H102MV070***
	1200	0.15	86	72	3.4	40x90	LKE2H122MB090***
		0.15	86	72	3.4	45x80	LKE2H122MV080***
		0.15	86	72	3.4	50x70	LKE2H122MJ070***
	1500	0.15	68	57	3.8	45x100	LKE2H152MV100***
		0.15	68	57	3.8	50x90	LKE2H152MJ090***
	1800	0.15	58	48	4.1	50x110	LKE2H182MJ110***

*** Indicates terminal type, length, and sleeve color.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LHS series 105℃ 2000 hours





- **Rohs requirements**
- **105℃ 2000 hours series**
- **Used for switching power supply, servo, inverter, and other industrial products**

■ Product description

Item	Characteristic					
Operating temperature range	-40℃ ~ +105℃			-25℃ ~ +105℃		
Rated voltage(WV/V)	63V ~ 450V			460V ~ 550V		
Capacitance(CAP/C)	68 ~ 10000μF					
Tolerance(CAP/C)	±20% (25℃, 120Hz)					
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)					
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	63	80 ~ 100	160 ~ 450	460 ~ 550	
	DF	0.25	0.20	0.15	0.15	
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)		63~100	160~200	250~450	460 ~ 500
	Z(-25℃/Z(+25℃)		4			
	Z(-40℃/Z(+25℃)		15	10	8	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6					
	C(-25℃/C(+25℃)≥0.7					

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	4000h	>180000h	2000h	3000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

■ Ripple current correction factor

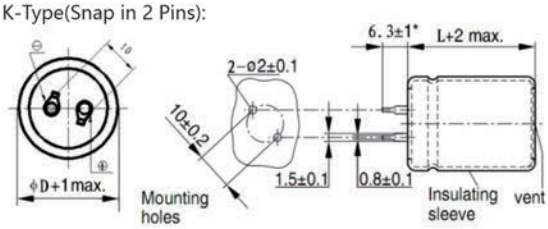
UR(V) \ Temp.℃	40	55	85	105
<160	2.1	1.8	1.5	1.0
≥160	2.7	2.5	1.7	1.0

UR(V) \ Freq.	50/60Hz	120Hz	1KHz	10KHz	≥50KHz
≤100	0.95	1.00	1.13	1.19	1.20
160-250	0.87	1.00	1.32	1.45	1.50
≥315	0.80	1.00	1.30	1.41	1.43

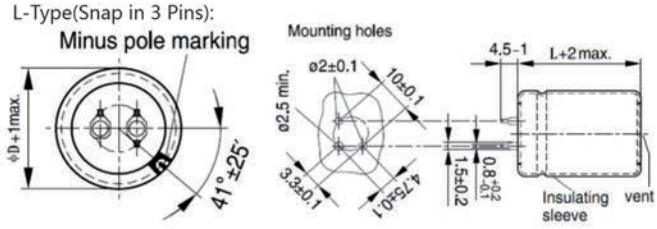
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

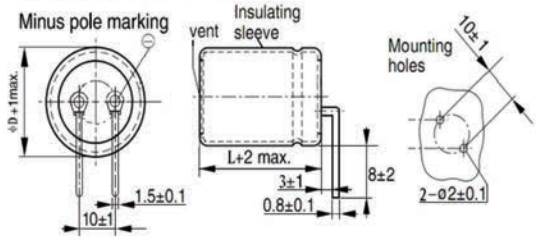
K-Type(Snap in 2 Pins):



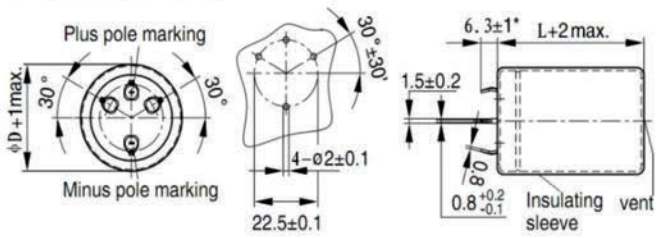
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LHS series:105℃ 2000 hours,standard snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
63 1J (79)	1200	0.25	233	155	1.30	22x25	LHS1J122MP025***
	1800	0.25	155	103	1.50	22x30	LHS1J182MP030***
		0.25	155	103	1.50	25x25	LHS1J182MQ025***
	2200	0.25	126	84	1.70	22x35	LHS1J222MP035***
		0.25	126	84	1.80	25x30	LHS1J222MQ030***
	2700	0.25	104	69	2.00	22x40	LHS1J272MP040***
		0.25	104	69	2.00	25x35	LHS1J272MQ035***
		0.25	104	69	2.00	30x25	LHS1J272MR025***
	3300	0.25	84	56	2.30	22x50	LHS1J332MP050***
		0.25	84	56	2.30	25x40	LHS1J332MQ040***
		0.25	84	56	2.30	30x30	LHS1J332MR030***
		0.25	84	56	2.40	35x25	LHS1J332MS025***
	3900	0.25	72	48	2.40	25x45	LHS1J392MQ045***
		0.25	72	48	2.60	30x35	LHS1J392MR035***
	4700	0.25	60	40	2.60	25x50	LHS1J472MQ050***
		0.25	60	40	2.90	30x40	LHS1J472MR040***
		0.25	60	40	2.90	35x30	LHS1J472MS030***
	5600	0.25	50	33	3.30	30x45	LHS1J562MR045***
		0.25	50	33	3.30	35x35	LHS1J562MS035***
	6800	0.25	41	27	3.80	30x50	LHS1J682MR050***
		0.25	41	27	3.70	35x40	LHS1J682MS040***
	8200	0.25	35	23	4.20	35x45	LHS1J822MS045***
	10000	0.25	29	19	4.70	35x50	LHS1J103MS050***
80 1K (100)	820	0.20	330	220	1.10	22x25	LHS1K821KP025***
	1000	0.20	280	185	1.30	22x25	LHS1K102MP025***
	1200	0.20	233	155	1.40	22x30	LHS1K122MP030***
		0.20	233	155	1.40	25x25	LHS1K122MQ025***
	1500	0.20	188	125	1.60	22x35	LHS1K152MP035***
		0.20	188	125	1.60	25x30	LHS1K152MQ030***
	1800	0.20	155	103	1.80	22x40	LHS1K182MP040***
		0.20	155	103	1.80	30x25	LHS1K182MR025***
	2200	0.20	126	84	2.00	25x35	LHS1K222MQ035***
		0.20	126	84	2.10	30x30	LHS1K222MR030***
		0.20	126	84	2.20	35x25	LHS1K222MS025***
	2700	0.20	104	69	2.50	25x45	LHS1K272MQ045***
		0.20	104	69	2.50	30x35	LHS1K272MR035***
	3300	0.20	84	56	2.80	30x40	LHS1K332MR040***
		0.20	84	56	2.70	35x30	LHS1K332MS030***
	3900	0.20	72	48	3.20	30x45	LHS1K392MR045***
		0.20	72	48	3.10	35x35	LHS1K392MS035***
	4700	0.20	60	40	3.60	30x50	LHS1K472MR050***
		0.20	60	40	3.50	35x40	LHS1K472MS040***
	5600	0.20	50	33	3.90	35x45	LHS1K562MS045***
	6800	0.20	41	27	4.20	35x50	LHS1K682MS050***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
100 2A (125)	560	0.20	495	330	1.10	22x25	LHS2A561MP025***
	820	0.20	338	225	1.40	22x30	LHS2A821MP030***
		0.20	338	225	1.40	25x25	LHS2A821MQ025***
	1000	0.20	279	186	1.60	22x35	LHS2A102MP035***
		0.20	279	186	1.60	25x30	LHS2A102MQ030***
	1200	0.20	233	155	1.80	25x35	LHS2A122MQ035***
		0.20	233	155	1.70	30x25	LHS2A122MR025***
	1500	0.20	186	124	2.00	25x40	LHS2A152MQ040***
		0.20	186	124	2.00	30x30	LHS2A152MR030***
		0.20	186	124	2.10	35x25	LHS2A152MS025***
	1800	0.20	155	103	2.30	25x45	LHS2A182MQ045***
		0.20	155	103	2.30	30x35	LHS2A182MR035***
	2200	0.20	126	84	2.60	30x40	LHS2A222MR040***
		0.20	126	84	2.50	35x30	LHS2A222MS030***
	2700	0.20	104	69	3.00	30x45	LHS2A272MR045***
		0.20	104	69	2.90	35x35	LHS2A272MS035***
	3300	0.20	84	56	3.30	30x50	LHS2A332MR050***
		0.20	84	56	3.30	35x40	LHS2A332MS040***
	3900	0.20	72	48	3.70	35x45	LHS2A392MS045***
	4700	0.20	60	40	4.20	35x50	LHS2A472MS050***
160 2C (200)	330	0.15	630	420	1.20	22x25	LHS2C331MP025***
	390	0.15	533	355	1.40	22x30	LHS2C391MP030***
	470	0.15	443	295	1.50	22x35	LHS2C471MP035***
		0.15	443	295	1.60	25x25	LHS2C471MQ025***
	560	0.15	374	249	1.60	22x40	LHS2C561MP040***
		0.15	374	249	1.70	25x30	LHS2C561MQ030***
	680	0.15	308	205	1.70	22x45	LHS2C681MP045***
		0.15	308	205	1.80	25x35	LHS2C681MQ035***
		0.15	308	205	1.80	30x25	LHS2C681MR025***
	820	0.15	255	170	2.00	22x50	LHS2C821MP050***
		0.15	255	170	2.00	25x40	LHS2C821MQ040***
		0.15	255	170	2.00	30x30	LHS2C821MR030***
		0.15	255	170	2.00	35x25	LHS2C821MS025***
	1000	0.15	209	139	2.00	25x45	LHS2C102MQ045***
		0.15	209	139	2.20	30x35	LHS2C102MR035***
	1200	0.15	174	116	2.20	25x50	LHS2C122MQ050***
		0.15	174	116	2.30	30x40	LHS2C122MR040***
		0.15	174	116	2.40	35x30	LHS2C122MS030***
	1500	0.15	140	93	2.50	30x45	LHS2C152MR045***
		0.15	140	93	2.60	35x35	LHS2C152MS035***
	1800	0.15	116	77	3.00	35x45	LHS2C182MS045***
	2200	0.15	95	63	3.10	35x50	LHS2C222MS050***
	2700	0.15	77	51	3.80	35x55	LHS2C272MS055***
	3300	0.15	63	42	4.40	35x60	LHS2C332MS060***

■ LHS series:105℃ 2000 hours,standard snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
200 2D (250)	220	0.15	945	630	1.10	22x25	LHS2D221MP025***
	270	0.15	773	515	1.20	22x30	LHS2D271MP030***
	330	0.15	630	420	1.30	22x30	LHS2D331MP030***
		0.15	630	420	1.40	25x25	LHS2D331MQ025***
	390	0.15	533	355	1.40	22x35	LHS2D391MP035***
	470	0.15	441	296	1.50	22x40	LHS2D471MP040***
		0.15	441	296	1.50	25x30	LHS2D471MQ030***
		0.15	441	296	1.60	30x25	LHS2D471MR025***
	560	0.15	372	249	1.60	22x45	LHS2D561MP045***
		0.15	372	249	1.70	25x35	LHS2D561MQ035***
	680	0.15	308	205	1.80	22x50	LHS2D681MP050***
		0.15	308	205	1.80	25x40	LHS2D681MQ040***
		0.15	308	205	1.80	30x30	LHS2D681MR030***
		0.15	308	205	2.00	35x25	LHS2D681MS025***
	820	0.15	255	170	2.00	30x35	LHS2D821MR035***
		0.15	255	170	2.10	35x30	LHS2D821MS030***
	1000	0.15	209	139	2.20	30x45	LHS2D102MR045***
		0.15	209	139	2.20	35x35	LHS2D102MS035***
	1200	0.15	174	116	2.20	30x50	LHS2D122MR050***
		0.15	174	116	2.50	35x40	LHS2D122MS040***
	1500	0.15	140	93	2.60	35x45	LHS2D152MS045***
	1800	0.15	116	77	2.70	35x50	LHS2D182MS050***
	2200	0.15	95	63	3.30	35x60	LHS2D222MS060***
250 2E (300)	180	0.15	1155	770	0.94	22x25	LHS2E181MP025***
	220	0.15	945	630	1.10	22x30	LHS2E221MP030***
		0.15	945	630	1.20	25x25	LHS2E221MQ025***
	270	0.15	773	515	1.20	22x35	LHS2E271MP035***
	330	0.15	633	422	1.20	22x40	LHS2E331MP040***
		0.15	633	422	1.30	25x30	LHS2E331MQ030***
		0.15	633	422	1.40	30x25	LHS2E331MR025***
	390	0.15	536	357	1.30	22x45	LHS2E391MP045***
		0.15	536	357	1.40	25x35	LHS2E391MQ035***
	470	0.15	444	296	1.40	22x50	LHS2E471MP050***
		0.15	444	296	1.50	25x40	LHS2E471MQ040***
		0.15	444	296	1.40	30x30	LHS2E471MR030***
		0.15	444	296	1.40	35x25	LHS2E471MS025***
	560	0.15	355	249	1.60	25x45	LHS2E561MQ045***
		0.15	355	249	1.60	30x35	LHS2E561MR035***
		0.15	355	249	1.60	35x30	LHS2E561MS030***
	680	0.15	293	205	1.70	25x50	LHS2E681MQ050***
		0.15	293	205	1.80	30x40	LHS2E681MR040***
	820	0.15	243	170	1.90	25x60	LHS2E821MQ060***
		0.15	243	170	1.90	30x45	LHS2E821MR045***
		0.15	243	170	1.80	35x35	LHS2E821MS035***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	1000	0.15	199	139	1.90	30x50	LHS2E102MR050***
		0.15	199	139	2.00	35x40	LHS2E102MS040***
	1200	0.15	166	116	2.10	35x45	LHS2E122MS045***
	1500	0.15	133	93	2.70	35x50	LHS2E152MS050***
	1800	0.15	111	77	3.00	35x60	LHS2E182MS060***
350 2V (400)	68	0.15	2927	1610	0.60	22x25	LHS2V680MP025***
	100	0.15	1990	1095	0.70	22x30	LHS2V101MP030***
		0.15	1990	1095	0.70	25x25	LHS2V101MQ025***
	120	0.15	1659	912	0.73	22x35	LHS2V121MP035***
	150	0.15	1327	730	0.80	22x40	LHS2V151MP040***
		0.15	1327	730	0.82	25x30	LHS2V151MQ030***
		0.15	1327	730	0.82	30x25	LHS2V151MR025***
	180	0.15	1106	608	0.81	22x45	LHS2V181MP045***
		0.15	1106	608	0.90	25x35	LHS2V181MQ035***
		0.15	1106	608	0.90	30x30	LHS2V181MR030***
	220	0.15	905	498	0.93	22x50	LHS2V221MP050***
		0.15	905	498	0.97	25x40	LHS2V221MQ040***
		0.15	905	498	0.98	35x25	LHS2V221MS025***
	270	0.15	737	406	1.10	25x50	LHS2V271MQ050***
		0.15	737	406	1.10	30x35	LHS2V271MR035***
		0.15	737	406	1.10	35x30	LHS2V271MS030***
	330	0.15	603	332	1.20	30x45	LHS2V331MR045***
		0.15	603	332	1.20	35x35	LHS2V331MS035***
	390	0.15	510	281	1.30	30x50	LHS2V391MR050***
		0.15	510	281	1.40	35x40	LHS2V391MS040***
	470	0.15	424	233	1.40	35x45	LHS2V471MS045***
	560	0.15	355	196	1.50	35x50	LHS2V561MS050***
	680	0.15	293	161	2.00	35x55	LHS2V681MS055***
	820	0.15	242	133	2.30	35x60	LHS2V821MS060***
	1000	0.15	220	110	2.60	35x60	LHS2V102MS060***
400 2G (450)	82	0.15	2430	1200	0.56	22x25	LHS2G820MP025***
	100	0.15	1995	1000	0.61	22x30	LHS2G101MP030***
		0.15	1995	1000	0.61	25x25	LHS2G101MQ025***
	120	0.15	1660	860	0.65	22x35	LHS2G121MP035***
		0.15	1660	860	0.65	25x30	LHS2G121MQ030***
		0.15	1660	860	0.71	30x25	LHS2G121MR025***
	150	0.15	1330	690	0.73	22x40	LHS2G151MP040***
		0.15	1330	690	0.73	25x25	LHS2G151MQ025***
		0.15	1330	690	0.73	30x25	LHS2G151MR025***
	180	0.15	1110	580	0.82	22x40	LHS2G181MP040***
		0.15	1110	580	0.82	25x30	LHS2G181MQ030***
		0.15	1110	580	0.82	22x45	LHS2G181MP045***
		0.15	1110	580	0.82	30x30	LHS2G181MR030***
		0.15	1110	580	0.82	35x25	LHS2G181MS025***

■ LHS series:105℃ 2000 hours,standard snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	220	0.15	910	470	0.91	22x50	LHS2G221MP050***
		0.15	910	470	0.91	25x45	LHS2G221MQ045***
		0.15	910	470	0.91	30x30	LHS2G221MR030***
	270	0.15	740	380	0.96	22x60	LHS2G271MP060***
		0.15	740	380	0.96	25x45	LHS2G271MQ045***
		0.15	740	380	0.96	30x35	LHS2G271MR035***
		0.15	740	380	0.96	35x30	LHS2G271MS030***
	330	0.15	610	310	1.13	25x55	LHS2G331MQ055***
		0.15	610	310	1.13	30x40	LHS2G331MR040***
		0.15	610	310	1.13	35x35	LHS2G331MS035***
	390	0.15	515	260	1.27	22x65	LHS2G391MP065***
		0.15	515	260	1.27	25x50	LHS2G391MQ050***
		0.15	515	260	1.27	30x40	LHS2G391MR040***
		0.15	515	260	1.27	35x35	LHS2G391MS035***
	470	0.15	425	220	1.33	22x75	LHS2G471MP075***
		0.15	425	220	1.33	25x60	LHS2G471MQ060***
		0.15	425	220	1.33	30x45	LHS2G471MR045***
		0.15	425	220	1.33	30x50	LHS2G471MR050***
		0.15	425	220	1.33	35x40	LHS2G471MS040***
		0.15	425	220	1.33	35x45	LHS2G471MS045***
	560	0.15	360	185	1.52	22x90	LHS2G561MP090***
		0.15	360	185	1.52	25x70	LHS2G561MQ070***
		0.15	360	185	1.52	30x60	LHS2G561MR060***
		0.15	360	185	1.52	35x50	LHS2G561MS050***
		0.15	360	185	1.52	35x55	LHS2G561MS055***
	680	0.15	290	150	1.91	25x80	LHS2G681MQ080***
		0.15	290	150	1.91	30x70	LHS2G681MR070***
		0.15	290	150	1.91	35x45	LHS2G681MS045***
		0.15	290	150	1.91	35x50	LHS2G681MS050***
	820	0.15	240	125	2.22	25x90	LHS2G821MQ090***
		0.15	240	125	2.22	30x80	LHS2G821MR080***
		0.15	240	125	2.22	35x50	LHS2G821MS050***
		0.15	240	125	2.22	35x55	LHS2G821MS055***
		0.15	240	125	2.22	35x60	LHS2G821MS060***
	1000	0.15	200	110	2.61	25x110	LHS2G102MQ110***
		0.15	200	110	2.61	30x80	LHS2G102MR080***
		0.15	200	110	2.61	35x60	LHS2G102MS060***
		0.15	200	110	2.61	35x65	LHS2G102MS065***
		0.15	200	110	2.61	35x70	LHS2G102MS070***
		0.15	200	110	2.61	35x75	LHS2G102MS075***
		0.15	200	110	2.61	40x50	LHS2G102MB050***
		0.15	200	110	2.61	40x60	LHS2G102MB060***
		0.15	200	110	2.61	45x50	LHS2G102MV050***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	1200	0.15	180	105	3.0	30x100	LHS2G122MR100***
		0.15	180	100	3.0	35x63	LHS2G122MS063***
		0.15	180	100	3.0	35x65	LHS2G122MS065***
		0.15	180	105	3.0	35x70	LHS2G122MS070***
		0.15	180	105	3.0	35x80	LHS2G122MS080***
		0.15	180	100	3.0	35x85	LHS2G122MS085***
		0.15	180	100	3.0	40x50	LHS2G122MB050***
		0.15	180	100	3.0	40x60	LHS2G122MB060***
		0.15	180	100	3.0	40x70	LHS2G122MB070***
		0.15	180	100	3.0	40x80	LHS2G122MB080***
		0.15	180	100	3.0	45x50	LHS2G122MV050***
	1500	0.15	160	90	3.5	35x75	LHS2G152MS075***
		0.15	160	90	3.5	35x80	LHS2G152MS080***
		0.15	160	90	3.5	35x85	LHS2G152MS085***
		0.15	160	90	3.5	35x90	LHS2G152MS090***
		0.15	160	90	3.5	35x100	LHS2G152MS100***
		0.15	160	90	3.5	40x80	LHS2G152MB080***
		0.15	160	90	3.5	45x70	LHS2G152MV070***
		0.15	160	90	3.5	45x75	LHS2G152MV075***
	1800	0.15	140	80	3.9	35x88	LHS2G182MS088***
		0.15	140	80	3.9	35x90	LHS2G182MS090***
		0.15	140	80	3.9	35x95	LHS2G182MS095***
		0.15	140	80	3.9	35x100	LHS2G182MS100***
		0.15	140	80	3.9	40x80	LHS2G182MB080***
		0.15	140	80	3.9	40x85	LHS2G182MB085***
		0.15	140	80	3.9	40x90	LHS2G182MB090***
		0.15	140	80	3.9	40x100	LHS2G182MB100***
		0.15	140	80	3.9	45x70	LHS2G182MV070***
	2200	0.15	120	70	4.2	35x110	LHS2G222MS110***
		0.15	120	70	4.2	40x90	LHS2G222MB090***
		0.15	120	70	4.2	40x95	LHS2G222MB095***
		0.15	120	70	4.2	40x100	LHS2G222MB100***
		0.15	120	70	4.2	40x110	LHS2G222MB110***
		0.15	120	70	4.2	45x70	LHS2G222MV070***
	2500	0.15	110	65	4.5	40x90	LHS2G252MB090***
		0.15	110	65	4.5	45x80	LHS2G252MV080***
		0.15	110	65	4.5	45x90	LHS2G252MV090***
	2700	0.15	100	60	4.8	40x100	LHS2G272MB100***
		0.15	100	60	4.8	45x80	LHS2G272MV080***
		0.15	100	60	4.8	45x90	LHS2G272MV090***
	3300	0.15	90	55	5.1	40x120	LHS2G332MB120***
		0.15	90	55	5.1	45x95	LHS2G332MV095***
		0.15	90	55	5.1	45x100	LHS2G332MV100***

■ LHS series:105℃ 2000 hours,standard snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	68	0.15	3900	1950	0.57	22x30	LHS2W680MP030***
	82	0.15	3200	1610	0.68	25x35	LHS2W820MQ035***
	100	0.15	2650	1320	0.72	22x35	LHS2W101MP035***
		0.15	2650	1320	0.73	25x30	LHS2W101MQ030***
	120	0.15	2210	1100	0.75	22x40	LHS2W121MP040***
		0.15	2210	1100	0.75	25x35	LHS2W121MQ035***
		0.15	2210	1100	0.75	30x30	LHS2W121MR030***
		0.15	2210	1100	0.75	35x25	LHS2W121MS025***
	150	0.15	1760	880	0.85	22x40	LHS2W151MP040***
		0.15	1760	880	0.85	25x35	LHS2W151MQ035***
		0.15	1760	880	0.85	30x30	LHS2W151MR030***
		0.15	1760	880	0.85	35x25	LHS2W151MS025***
		0.15	1760	880	0.85	35x30	LHS2W151MS030***
	220	0.15	1200	600	0.95	25x50	LHS2W221MQ050***
		0.15	1200	600	0.95	30x40	LHS2W221MR040***
		0.15	1200	600	0.95	35x30	LHS2W221MS030***
	270	0.15	980	490	1.13	25x50	LHS2W271MQ050***
		0.15	980	490	1.13	30x40	LHS2W271MR040***
		0.15	980	490	1.13	35x35	LHS2W271MS035***
	330	0.15	800	400	1.26	25x55	LHS2W331MQ055***
		0.15	800	400	1.26	30x45	LHS2W331MR045***
		0.15	800	400	1.26	35x35	LHS2W331MS035***
	390	0.15	680	330	1.33	30x50	LHS2W391MR050***
		0.15	680	330	1.33	35x35	LHS2W391MS035***
	470	0.15	560	280	1.51	25x65	LHS2W471MQ065***
		0.15	560	280	1.51	30x50	LHS2W471MR050***
		0.15	560	280	1.51	35x45	LHS2W471MS045***
	560	0.15	470	230	1.73	25x75	LHS2W561MQ075***
		0.15	470	230	1.73	30x60	LHS2W561MR060***
		0.15	470	230	1.73	35x50	LHS2W561MS050***
	680	0.15	390	190	2.02	30x70	LHS2W681MR070***
		0.15	390	190	2.02	35x50	LHS2W681MS050***
	820	0.15	320	160	2.33	30x80	LHS2W821MR080***
		0.15	320	160	2.33	35x60	LHS2W821MS060***
	1000	0.15	300	140	2.6	30x90	LHS2W102MR090***
		0.15	300	140	2.7	35x70	LHS2W102MS070***
	1500	0.15	280	120	3.01	35x90	LHS2W152MS090***
		0.15	280	120	3.01	40x70	LHS2W152MB070***
	1800	0.15	260	120	3.35	35x110	LHS2W182MS110***
		0.15	260	120	3.35	40x90	LHS2W182MB090***
	2200	0.15	240	180	3.69	40x110	LHS2W222MB110***
		0.15	240	180	3.69	45x90	LHS2W222MV090***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	68	0.15	3900	1950	0.56	22x30	LHS2W680MP030***
	82	0.15	3200	1600	0.65	25x35	LHS2W820MQ035***
	100	0.15	2500	1300	0.67	30x25	LHS2H101MR025***
	120	0.15	2200	1100	0.77	30x30	LHS2H121MR030***
		0.15	2200	1100	0.72	35x25	LHS2H121MS025***
	150	0.15	1700	880	0.85	25x40	LHS2H151MQ040***
		0.15	1700	880	0.85	30x35	LHS2H151MR035***
	180	0.15	1400	700	1.01	30x40	LHS2H181MR040***
		0.15	1400	700	1.01	35x30	LHS2H181MS030***
	220	0.15	1200	600	1.12	30x45	LHS2H221MR045***
		0.15	1200	600	1.12	35x35	LHS2H221MS035***
	270	0.15	980	450	1.29	30x50	LHS2H271MR050***
		0.15	980	450	1.28	35x40	LHS2H271MS040***
	330	0.15	800	400	1.45	30x60	LHS2H331MR060***
		0.15	800	400	1.45	35x45	LHS2H331MS045***
	390	0.15	650	330	1.41	30x70	LHS2H391MR070***
		0.15	650	330	1.41	35x50	LHS2H391MS050***
	470	0.15	560	280	1.55	30x80	LHS2H471MR080***
		0.15	560	280	1.55	35x55	LHS2H471MS055***
	560	0.15	470	230	1.7	30x90	LHS2H561MR090***
		0.15	470	230	1.7	35x65	LHS2H561MS065***
	680	0.15	390	190	2.2	30x110	LHS2H681MR110***
		0.15	390	190	2.2	35x70	LHS2H681MS070***
	820	0.15	310	160	2.6	35x80	LHS2H821MS080***
		0.15	310	160	2.6	40x70	LHS2H821MB070***
	1000	0.15	270	130	2.8	35x90	LHS2H102MS090***
		0.15	270	130	2.8	40x80	LHS2H102MB080***
550 2Y (600)	180	0.15	1470	750	1.08	30x50	LHS2Y181MR050***
		0.15	1470	750	1.08	35x35	LHS2Y181MS035***
	220	0.15	1206	600	1.20	30x55	LHS2Y221MR055***
		0.15	1206	600	1.20	35x40	LHS2Y221MS040***
	270	0.15	990	493	1.32	35x45	LHS2Y271MS045***
	330	0.15	810	425	1.48	35x50	LHS2Y331MS050***
	390	0.15	681	340	1.62	35x60	LHS2Y391MS060***
	470	0.15	560	280	1.95	35x70	LHS2Y471MS070***
	560	0.15	473	237	2.10	35x80	LHS2Y561MS080***
		0.15	473	237	2.10	40x70	LHS2Y561MB070***
	680	0.15	500	395	2.40	35x80	LHS2Y681MS080***
		0.15	500	395	2.40	40x60	LHS2Y681MB060***
	820	0.15	460	351	2.60	35x100	LHS2Y821MS100***
		0.15	460	351	2.60	40x80	LHS2Y821MB080***
	1000	0.15	400	305	2.80	45x80	LHS2Y102MV080***

*** Indicates terminal type, length, and sleeve color.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LHA series 105℃ 3000 hours

LHS longer life LHA longer life LHB
↑105℃ ↑105℃
LKS longer life LKA higer current LCA



- **Rohs requirements**
- **105℃ 3000 hours series**
- **Used for switching power supply, servos, frequency converters, air conditioners, filter circuits, laser welding machines, and other general industrial products**

■ Product description

Item	Characteristic		
Operating temperature range	-40℃ ~ +105℃	-25℃ ~ +105℃	
Rated voltage(WV/V)	350V ~ 450V	460V ~ 600V	
Capacitance(CAP/C)	150 ~ 3300μF		
Tolerance(CAP/C)	±20% (25℃, 120Hz)		
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)		
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	350 ~ 450	460 ~ 600
	DF	0.15	0.15
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	350 ~ 450	460 ~ 600
	Z(-25℃/Z(+25℃)	4	7
	Z(-40℃/Z(+25℃)	8	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6		
	C(-25℃/C(+25℃)≥0.7		

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	6000h	>200000h	3000h	4000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

■ Ripple current correction factor

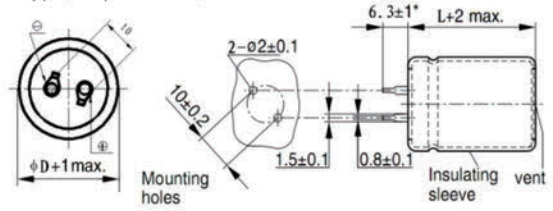
Temp.℃	40	55	85	105
Coefficient	3.0	2.8	2.0	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.15	1.30	1.41

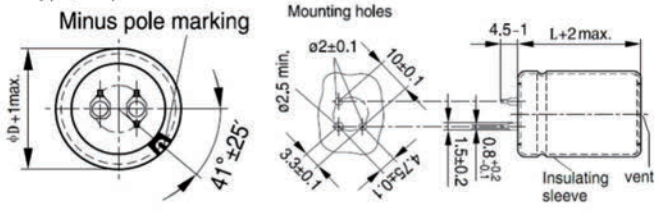
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

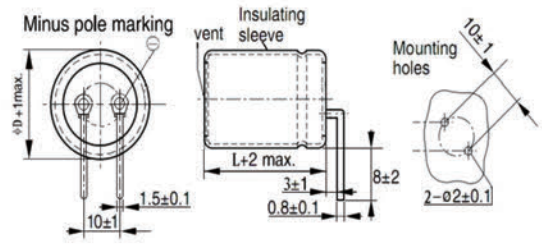
K-Type(Snap in 2 Pins):



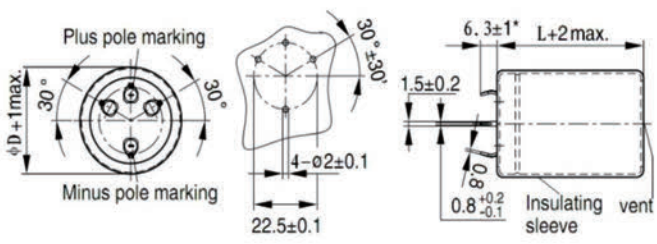
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LHA series:105℃ 3000 hours,standard snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	560	0.15	354	177	2.3	30x55	LHA2V561MR055***
		0.15	354	177	2.3	35x40	LHA2V561MS040***
	680	0.15	292	145	2.7	35x50	LHA2V681MS050***
		0.15	292	145	2.7	40x40	LHA2V681MB040***
	820	0.15	242	120	3.1	35x60	LHA2V821MS060***
		0.15	242	120	3.0	40x45	LHA2V821MB045***
		0.15	242	120	2.9	45x40	LHA2V821MV040***
	1000	0.15	198	99	3.5	35x65	LHA2V102MS065***
		0.15	198	99	3.4	40x55	LHA2V102MB055***
		0.15	198	99	3.1	45x45	LHA2V102MV045***
	1200	0.15	165	82	3.8	35x75	LHA2V122MS075***
		0.15	165	82	3.8	40x65	LHA2V122MB065***
		0.15	165	82	3.5	45x50	LHA2V122MV050***
	1500	0.15	132	65	4.6	40x80	LHA2V152MB080***
		0.15	132	65	4.3	45x65	LHA2V152MV065***
	1800	0.15	110	54	5.4	40x95	LHA2V182MB095***
		0.15	110	54	5	45x75	LHA2V182MV075***
	2200	0.15	89	44	5.9	45x90	LHA2V222MV090***
		0.15	89	44	5.9	50x75	LHA2V222MJ075***
	2700	0.15	73	36	6.8	45x100	LHA2V272MV100***
		0.15	73	36	6.8	50x90	LHA2V272MJ090***
	3300	0.15	59	29	6.8	50x105	LHA2V332MJ105***
400 2G (450)	470	0.15	422	168	2.1	35x45	LHA2G471MS045***
		0.15	422	168	2.1	40x40	LHA2G471MB040***
		0.15	354	141	2.5	35x50	LHA2G471MS050***
	560	0.15	354	141	2.4	40x45	LHA2G561MB045***
		0.15	354	141	2.4	45x60	LHA2G561MV060***
	680	0.15	292	116	2.7	35x60	LHA2G681MS060***
		0.15	292	116	2.8	40x50	LHA2G681MB050***
		0.15	292	116	2.6	45x40	LHA2G681MV040***
	820	0.15	242	96	3.2	35x65	LHA2G821MS065***
		0.15	242	96	3.1	40x55	LHA2G821MB055***
		0.15	242	96	2.8	45x45	LHA2G821MV045***
	1000	0.15	198	79	3.5	35x80	LHA2G102MS080***
		0.15	198	79	3.5	40x65	LHA2G102MB065***
		0.15	198	79	3.2	45x55	LHA2G102MV055***
	1200	0.15	165	65	4.1	35x90	LHA2G122MS090***
		0.15	165	65	4.1	40x80	LHA2G122MB080***
		0.15	165	65	3.7	45x60	LHA2G122MV060***
	1500	0.15	132	52	4.4	40x90	LHA2G152MB090***
		0.15	132	52	4.4	45x75	LHA2G152MV075***
		0.15	132	52	4.4	50x70	LHA2G152MJ070***
	1800	0.15	110	43	5.3	45x90	LHA2G182MV090***
		0.15	110	43	5.3	50x80	LHA2G182MJ080***
	2200	0.15	89	35	5.9	50x90	LHA2G222MJ090***
	2700	0.15	73	28	6.5	50x105	LHA2G272MJ105***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (470)	390	0.15	599	220	1.9	35x40	LHA2I391MS040***
		0.15	599	220	2	40x35	LHA2I391MB035***
	470	0.15	499	183	2.3	35x45	LHA2I471MS045***
		0.15	499	183	2.2	40x40	LHA2I471MB040***
	560	0.15	419	153	2.5	40x45	LHA2I561MB045***
		0.15	419	153	2.4	45x40	LHA2I561MV040***
	680	0.15	339	126	2.8	35x60	LHA2I681MS060***
		0.15	339	126	2.8	40x50	LHA2I681MB050***
		0.15	339	126	2.5	45x45	LHA2I681MV045***
	820	0.15	289	104	3.3	35x70	LHA2I821MS070***
		0.15	289	104	3.1	40x60	LHA2I821MB060***
		0.15	289	104	2.9	45x50	LHA2I821MV050***
	1000	0.15	239	85	3.7	35x80	LHA2I102MS080***
		0.15	239	85	3.7	40x70	LHA2I102MB070***
		0.15	239	85	3.4	45x60	LHA2I102MV060***
	1200	0.15	199	71	4.3	40x80	LHA2I122MB080***
		0.15	199	71	4	45x65	LHA2I122MV065***
	1500	0.15	159	57	4.6	45x80	LHA2I152MV080***
		0.15	159	57	4.6	50x75	LHA2I152MJ075***
	1800	0.15	129	47	5.4	45x95	LHA2I182MV095***
		0.15	129	47	5.4	50x85	LHA2I182MJ085***
	2200	0.15	129	38	6	50x100	LHA2I222MJ100***
450 2W (500)	390	0.15	509	224	2	35x40	LHA2X391MS040***
	470	0.15	422	185	2.3	35x45	LHA2W471MS045***
		0.15	422	185	2.2	40x40	LHA2W471MB040***
		0.15	422	185	2.2	45x35	LHA2W471MV035***
	560	0.15	354	165	2.5	35x55	LHA2W561MS055***
		0.15	354	165	2.5	40x50	LHA2W561MB050***
		0.15	354	165	2.4	45x40	LHA2W561MV040***
	680	0.15	292	128	2.9	35x65	LHA2W681MS065***
		0.15	292	128	2.8	40x60	LHA2W681MB060***
		0.15	292	128	2.6	45x50	LHA2W681MV050***
	820	0.15	242	106	3.2	35x75	LHA2W821MS075***
		0.15	242	106	3.2	40x65	LHA2W821MB065***
		0.15	242	106	3.1	45x50	LHA2W821MV050***
	1000	0.15	198	87	3.8	35x90	LHA2W102MS090***
		0.15	198	87	3.8	40x80	LHA2W102MB080***
		0.15	198	87	3.7	45x65	LHA2W102MV065***
	1200	0.15	165	72	4.4	40x95	LHA2W122MB095***
		0.15	165	72	4.2	45x75	LHA2W122MV075***
		0.15	165	72	4.2	50x65	LHA2W122MJ065***
	1500	0.15	132	57	4.8	40x100	LHA2W152MB100***
		0.15	132	57	4.8	45x90	LHA2W152MV090***
		0.15	132	57	4.8	50x80	LHA2W152MJ080***
	1800	0.15	110	48	5.3	45x105	LHA2W182MV105***
		0.15	110	48	5.3	50x95	LHA2W182MJ095***

■ LHA series:105℃ 3000 hours,standard snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (500)	150	0.15	1584	880	0.86	25x40	LHA2H151MQ040***
		0.15	1584	880	0.86	30x25	LHA2H151MR025***
	180	0.15	1314	730	1.02	25x45	LHA2H181MQ045***
		0.15	1314	730	1.02	30x30	LHA2H181MR030***
	220	0.15	1080	600	1.12	25x45	LHA2H221MQ045***
		0.15	1080	600	1.12	30x35	LHA2H221MR035***
	270	0.15	882	490	1.31	30x45	LHA2H271MR045***
		0.15	882	490	1.31	35x35	LHA2H271MS035***
	330	0.15	720	400	1.41	30x50	LHA2H331MR050***
		0.15	720	400	1.41	35x40	LHA2H331MS040***
	390	0.15	612	340	1.62	30x55	LHA2H391MR055***
		0.15	612	340	1.62	35x50	LHA2H391MS050***
	470	0.15	504	280	1.8	30x65	LHA2H471MR065***
		0.15	504	280	1.8	35x50	LHA2H471MS050***
		0.15	504	280	1.82	40x40	LHA2H471MB040***
	560	0.15	427	237	1.9	30x70	LHA2H561MR070***
		0.15	427	237	1.9	35x55	LHA2H561MS055***
		0.15	427	237	1.9	40x55	LHA2H561MB055***
	680	0.15	353	196	2.2	30x85	LHA2H681MR085***
		0.15	353	196	2.2	35x65	LHA2H681MS065***
		0.15	353	196	2.2	40x60	LHA2H681MB060***
	750	0.15	306	170	2.3	30x90	LHA2H751MR090***
		0.15	306	170	2.3	35x80	LHA2H751MS080***
	820	0.15	270	150	2.5	30x100	LHA2H821MR100***
		0.15	270	150	2.5	35x80	LHA2H821MS080***
	1000	0.15	218	121	2.7	40x90	LHA2H102MB090***
		0.15	218	121	2.7	45x75	LHA2H102MV075***
	1200	0.15	198	110	2.9	40x100	LHA2H122MB100***
		0.15	198	110	2.9	45x85	LHA2H122MV085***
		0.15	198	110	2.9	50x80	LHA2H122MJ080***
	1500	0.15	162	90	3.1	45x100	LHA2H152MV100***
		0.15	162	90	3.1	50x95	LHA2H152MJ095***
	1800	0.15	126	70	3.1	50x105	LHA2H182MJ105***

*** Indicates terminal type, length, and sleeve color.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
550 2Y (500)	150	0.15	1584	880	0.88	25x45	LHA2Y151MQ045***
		0.15	1584	880	0.88	30x30	LHA2Y151MR030***
	180	0.15	1314	730	1.06	30x35	LHA2Y181MR035***
		0.15	1314	730	1.06	35x30	LHA2Y181MS030***
	220	0.15	1080	600	1.18	30x40	LHA2Y221MR040***
		0.15	1080	600	1.18	35x35	LHA2Y221MS035***
	270	0.15	882	490	1.31	30x50	LHA2Y271MR050***
		0.15	882	490	1.31	35x40	LHA2Y271MS040***
	330	0.15	720	400	1.5	30x55	LHA2Y331MR055***
		0.15	720	400	1.5	35x45	LHA2Y331MS045***
	390	0.15	612	340	1.68	30x65	LHA2Y391MR065***
		0.15	612	340	1.68	35x60	LHA2Y391MS060***
	470	0.15	504	280	1.95	30x75	LHA2Y471MR075***
		0.15	504	280	1.95	35x60	LHA2Y471MS060***
		0.15	504	280	1.95	40x50	LHA2Y471MB050***
	560	0.15	427	237	2.1	30x85	LHA2Y561MR085***
		0.15	427	237	2.1	35x65	LHA2Y561MS065***
		0.15	427	237	2.1	40x60	LHA2Y561MB060***
	680	0.15	353	196	2.3	30x100	LHA2Y681MR100***
		0.15	353	196	2.3	35x75	LHA2Y681MS075***
		0.15	353	196	2.3	40x70	LHA2Y681MB070***
	750	0.15	306	170	2.4	35x90	LHA2Y751MS090***
		0.15	306	170	2.4	40x80	LHA2Y751MB080***
600 2S (650)	150	0.15	1584	880	0.88	30x35	LHA2S151MR035***
		0.15	1584	880	0.88	35x30	LHA2S151MS030***
	180	0.15	1314	730	1.06	30x40	LHA2S181MR040***
		0.15	1314	730	1.06	35x35	LHA2S181MS035***
	220	0.15	1080	600	1.18	30x55	LHA2S221MR055***
		0.15	1080	600	1.18	35x45	LHA2S221MS045***
	270	0.15	882	490	1.31	30x60	LHA2S271MR060***
		0.15	882	490	1.31	35x50	LHA2S271MS050***
	330	0.15	720	400	1.5	30x65	LHA2S331MR065***
		0.15	720	400	1.5	35x60	LHA2S331MS060***
	390	0.15	612	340	1.68	30x70	LHA2S391MR070***
		0.15	612	340	1.68	35x60	LHA2S391MS060***
	470	0.15	504	280	1.95	30x85	LHA2S471MR085***
		0.15	504	280	1.95	35x70	LHA2S471MS070***
		0.15	504	280	1.95	40x60	LHA2S471MB060***
	560	0.15	427	237	2.1	30x100	LHA2S561MR100***
		0.15	427	237	2.1	35x80	LHA2S561MS080***
		0.15	427	237	2.1	40x70	LHA2S561MB070***
	680	0.15	353	196	2.3	35x90	LHA2S681MS090***
		0.15	353	196	2.3	40x80	LHA2S681MS080***

LHB series 105℃ 5000 hours

LHA ↑105℃ longer life LHB ↑105℃ longer life LHC

LKA longer life LKB higer current LCB



- **Rohs requirements**
- **105℃ 5000 hours series**
- **Used for switching power supply, servos, frequency converters, air conditioners, filter circuits, laser welding machines, and other general industrial products**

■ Product description

Item	Characteristic			
Operating temperature range	-40℃ ~ +105℃		-25℃ ~ +105℃	
Rated voltage(WV/V)	160V ~ 450V		460V ~ 550V	
Capacitance(CAP/C)	100 ~ 3300μF			
Tolerance(CAP/C)	±20% (25℃, 120Hz)			
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)			
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	160 ~ 450	460 ~ 550	
	DF	0.15	0.15	
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	160 ~ 100	450 ~ 500	550
	Z(-25℃/Z(+25℃)	4	7	10
	Z(-40℃/Z(+25℃)	8	12	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6			
	C(-25℃/C(+25℃)≥0.7			

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	10000h	>250000h	5000h	5000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

■ Ripple current correction factor

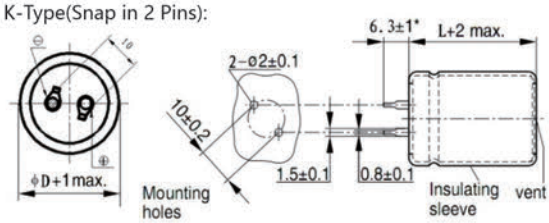
Temp.℃	40	55	85	105
Coefficient	3.0	2.8	2.0	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.15	1.30	1.41

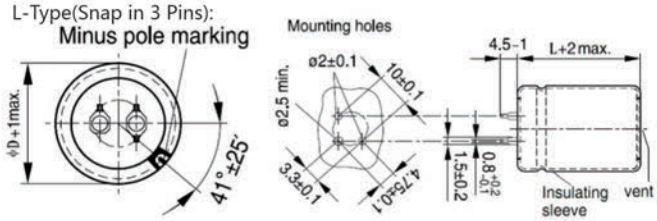
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

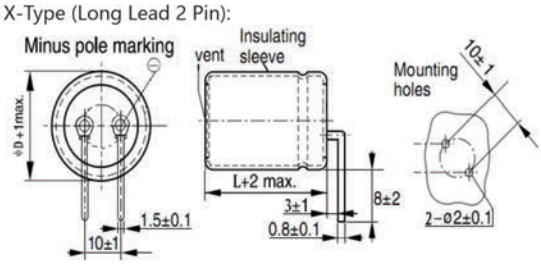
K-Type(Snap in 2 Pins):



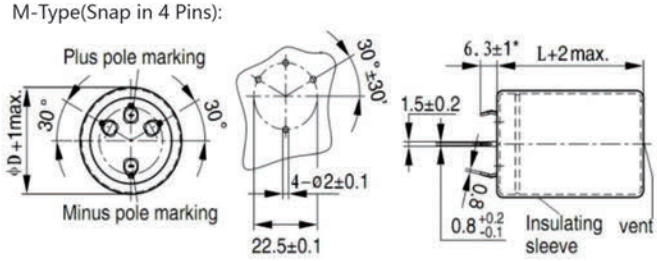
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LHB series:105℃ 5000 hours,standard snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
160 2C (200)	470	0.15	423	254	1.11	22x35	LHB2C471MP035***
	560	0.15	355	213	1.26	22x40	LHB2C561MP040***
	680	0.15	293	176	1.41	22x40	LHB2C681MP040***
		0.15	293	176	1.33	25x35	LHB2C681MQ035***
	820	0.15	243	146	1.56	22x45	LHB2C821MP045***
		0.15	243	146	1.56	25x40	LHB2C821MQ040***
	1000	0.15	199	119	1.78	22x55	LHB2C102MP055***
		0.15	199	119	1.78	25x45	LHB2C102MQ045***
		0.15	199	119	1.85	30x35	LHB2C102MR035***
	1200	0.15	166	100	2.07	25x50	LHB2C122MQ050***
		0.15	166	100	2.07	30x40	LHB2C122MR040***
		0.15	166	100	2.07	35x35	LHB2C122MS035***
	1500	0.15	133	80	2.30	25x60	LHB2C152MQ060***
		0.15	133	80	2.30	25x70	LHB2C152MQ070***
		0.15	133	80	2.37	30x45	LHB2C152MR045***
	1800	0.15	111	66	2.67	25x70	LHB2C182MQ070***
		0.15	111	66	2.67	30x50	LHB2C182MR050***
		0.15	111	66	2.59	35x40	LHB2C182MS040***
	2200	0.15	90	54	3.04	30x55	LHB2C222MR055***
		0.15	90	54	3.04	30x60	LHB2C222MR060***
		0.15	90	54	2.96	35x45	LHB2C222MS045***
		0.15	90	54	2.96	35x50	LHB2C222MS050***
	2700	0.15	74	44	3.41	35x50	LHB2C272MS050***
		0.15	74	44	3.56	35x55	LHB2C272MS055***
	3300	0.15	60	36	4.00	35x60	LHB2C332MS060***
200 2D (250)	390	0.15	510	306	0.96	22x35	LHB2D391MP035***
	470	0.15	423	254	1.11	22x40	LHB2D471MP040***
	560	0.15	355	213	1.26	22x45	LHB2D561MP045***
		0.15	355	213	1.19	25x35	LHB2D561MQ035***
	680	0.15	293	176	1.41	22x55	LHB2D681MP055***
		0.15	293	176	1.41	25x40	LHB2D681MQ040***
		0.15	293	176	1.41	30x35	LHB2D681MR035***
	820	0.15	243	146	1.63	22x60	LHB2D821MP060***
		0.15	243	146	1.63	25x50	LHB2D821MQ050***
	1000	0.15	199	119	1.85	25x55	LHB2D102MQ055***
		0.15	199	119	1.85	30x40	LHB2D102MR040***
		0.15	199	119	2.00	35x35	LHB2D102MS035***
		0.15	199	119	2.00	35x40	LHB2D102MS040***
	1200	0.15	166	100	2.00	25x65	LHB2D122MQ065***
		0.15	166	100	2.07	30x45	LHB2D122MR045***
		0.15	166	100	2.07	30x60	LHB2D122MR060***
		0.15	166	100	2.22	35x40	LHB2D122MS040***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
200 2D (250)	1500	0.15	133	80	2.44	30x50	LHB2D152MR050***
		0.15	133	80	2.44	30x55	LHB2D152MR055***
		0.15	133	80	2.52	35x45	LHB2D152MS045***
	1800	0.15	111	66	2.74	30x65	LHB2D182MR065***
		0.15	111	66	2.81	35x50	LHB2D182MS050***
		0.15	111	66	2.81	35x55	LHB2D182MS055***
	2200	0.15	90	54	3.19	35x55	LHB2D222MS055***
		0.15	90	54	3.19	35x60	LHB2D222MS060***
	2700	0.15	74	44	3.63	35x70	LHB2D272MS070***
250 2E (300)	270	0.15	737	442	0.81	22x35	LHB2E271MP035***
	330	0.15	603	362	0.96	22x40	LHB2E331MP040***
	390	0.15	510	306	1.04	22x45	LHB2E391MP045***
		0.15	510	306	1.04	25x35	LHB2E391MQ035***
	470	0.15	423	254	1.19	22x50	LHB2E471MP050***
		0.15	423	254	1.19	25x40	LHB2E471MQ040***
	560	0.15	355	213	1.33	22x55	LHB2E561MP055***
		0.15	355	213	1.33	25x45	LHB2E561MQ045***
		0.15	355	213	1.33	30x35	LHB2E561MR035***
	680	0.15	293	176	1.48	25x50	LHB2E681MQ050***
		0.15	293	176	1.56	30x40	LHB2E681MR040***
		0.15	293	176	1.63	35x35	LHB2E681MS035***
	820	0.15	243	146	1.70	25x55	LHB2E821MQ055***
		0.15	243	146	1.78	30x45	LHB2E821MR045***
		0.15	243	146	1.85	35x40	LHB2E821MS040***
	1000	0.15	199	119	2.00	30x50	LHB2E102MR050***
	1200	0.15	166	100	2.22	35x55	LHB2E122MS055***
		0.15	166	100	2.22	35x45	LHB2E122MS045***
		0.15	166	100	2.37	35x50	LHB2E122MS050***
	1500	0.15	133	80	2.67	35x55	LHB2E152MS055***
	1800	0.15	111	66	2.96	35x60	LHB2E182MS060***
350 2V (400)	560	0.15	355	213	1.48	30x55	LHB2V561MR055***
		0.15	355	213	1.48	35x45	LHB2V561MS045***
	680	0.15	293	176	1.78	30x60	LHB2V681MR060***
		0.15	293	176	1.78	35x50	LHB2V681MS050***
	820	0.15	243	146	1.93	35x55	LHB2V821MS055***
		0.15	243	146	1.93	35x60	LHB2V821MS060***
	1000	0.15	199	119	2.07	35x60	LHB2V102MS060***

■ LHB series:105℃ 5000 hours,standard snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
315 2F (368)	180	0.15	1106	663	1.0	22x30	LHB2F181MP030***
	220	0.15	905	543	1.1	22x35	LHB2F221MP035***
	270	0.15	737	442	1.2	22x40	LHB2F271MP040***
		0.15	737	442	1.2	25x35	LHB2F271MQ035***
	330	0.15	603	362	1.4	22x45	LHB2F331MP045***
	390	0.15	510	306	1.6	22x50	LHB2F391MP050**
		0.15	510	306	1.6	22x60	LHB2F391MP060***
		0.15	510	306	1.6	25x40	LHB2F391MQ040***
	470	0.15	423	254	1.8	22x60	LHB2F471MP060***
		0.15	423	254	1.8	30x35	LHB2F471MR035***
		0.15	423	254	1.8	35x30	LHB2F471MS030***
	560	0.15	355	213	2.0	25x55	LHB2F561MQ055***
		0.15	355	213	1.9	30x40	LHB2F561MR040***
		0.15	355	213	2.0	30x50	LHB2F561MR050***
	680	0.15	293	176	2.2	30x50	LHB2F681MR050***
		0.15	293	176	2.3	30x45	LHB2F681MR045***
		0.15	293	176	2.2	35x35	LHB2F681MS035***
	820	0.15	243	146	2.5	30x50	LHB2F821MR050***
		0.15	243	146	2.6	35x40	LHB2F821MS040***
	1000	0.15	199	119	2.9	35x45	LHB2F102MS045***
	1200	0.15	166	100	3.3	35x60	LHB2F122MS060***
		0.15	166	100	3.3	35x55	LHB2F122MS055***
350 2V (400)	120	0.15	1659	995	0.7	22x25	LHB2V121MP025***
	150	0.15	1327	796	0.8	22x30	LHB2V151MP030***
	180	0.15	1106	663	0.9	22x35	LHB2V181MP035***
		0.15	1106	663	0.9	25x30	LHB2V181MQ030***
	220	0.15	905	543	1.0	22x40	LHB2V221MP040***
		0.15	905	543	1.0	25x35	LHB2V221MQ035***
		0.15	905	543	1.0	30x25	LHB2V221MR025***
	270	0.15	737	442	1.3	22x45	LHB2V271MP045***
		0.15	737	442	1.3	22x50	LHB2V271MP050***
		0.15	737	442	1.3	25x35	LHB2V271MQ035***
		0.15	737	442	1.3	30x30	LHB2V271MR030***
	330	0.15	603	362	1.4	22x55	LHB2V331MP055***
		0.15	603	362	1.4	25x45	LHB2V331MQ045***
		0.15	603	362	1.4	30x30	LHB2V331MR030***
	390	0.15	510	306	1.6	25x50	LHB2V391MQ050***
		0.15	510	306	1.6	25x55	LHB2V391MQ055***
		0.15	510	306	1.6	30x35	LHB2V391MR035***
	470	0.15	423	254	1.8	25x55	LHB2V471MQ055***
		0.15	423	254	1.8	30x40	LHB2V471MR040***
		0.15	423	254	1.8	35x35	LHB2V471MS035***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	150	0.15	1327	708	0.67	22x35	LHB2G151MP035***
		0.15	1327	708	0.67	25x30	LHB2G151MQ030***
	180	0.15	1106	590	0.74	22x40	LHB2G181MP040***
		0.15	1106	590	0.74	25x30	LHB2G181MQ030***
	220	0.15	905	483	0.81	22x45	LHB2G221MP045***
		0.15	905	483	0.81	25x35	LHB2G221MQ035***
		0.15	905	483	0.89	30x30	LHB2G221MR030***
	270	0.15	737	393	0.96	22x50	LHB2G271MP050***
		0.15	737	393	0.96	25x40	LHB2G271MQ040***
		0.15	737	393	0.96	30x30	LHB2G271MR030***
	330	0.15	603	322	1.11	25x50	LHB2G331MQ050***
		0.15	603	322	1.04	30x35	LHB2G331MR035***
		0.15	603	322	1.11	35x30	LHB2G331MS030***
	390	0.15	510	272	1.19	25x55	LHB2G391MQ055***
		0.15	510	272	1.19	30x40	LHB2G391MR040***
		0.15	510	272	1.26	35x30	LHB2G391MS030***
	470	0.15	423	226	1.33	30x45	LHB2G471MR045***
		0.15	423	226	1.41	35x35	LHB2G471MS035***
	560	0.15	355	190	1.56	30x50	LHB2G561MR050***
		0.15	355	190	1.56	35x40	LHB2G561MS040***
	680	0.15	293	156	1.78	35x45	LHB2G681MS045***
	820	0.15	243	170	2.00	35x55	LHB2G821MS055***
	1000	0.15	199	106	2.37	35x60	LHB2G102MS060***
	1200	0.15	166	88	2.74	35x70	LHB2G122MS070***
420 2I (470)	100	0.15	1990	1128	0.52	22x30	LHB2I101MP030***
	120	0.15	1659	940	0.59	22x30	LHB2I121MP030***
		0.15	1659	940	0.59	25x25	LHB2I121MQ025***
	150	0.15	1327	752	0.67	22x35	LHB2I151MP035***
	180	0.15	1106	627	0.74	22x40	LHB2I181MP040***
		0.15	1106	627	0.74	25x30	LHB2I181MQ030***
		0.15	1106	627	0.81	30x25	LHB2I181MR025***
	220	0.15	905	513	0.89	22x45	LHB2I221MP045***
		0.15	905	513	0.89	22x50	LHB2I221MP050***
		0.15	905	513	0.89	25x35	LHB2I221MQ035***
		0.15	905	513	0.89	30x30	LHB2I221MR030***
	270	0.15	737	418	0.96	25x40	LHB2I271MQ040***
		0.15	737	418	0.96	30x30	LHB2I271MR030***
		0.15	737	418	1.04	35x25	LHB2I271MS025***
	330	0.15	603	342	1.11	25x50	LHB2I331MQ050***
		0.15	603	342	1.11	30x35	LHB2I331MR035***
		0.15	603	342	1.19	35x30	LHB2I331MS030***

■ LHB series:105℃ 5000 hours,standard snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (470)	390	0.15	510	289	1.26	30x40	LHB2I391MR040***
		0.15	510	289	1.26	35x30	LHB2I391MS030***
		0.15	510	289	1.26	35x35	LHB2I391MS035***
	470	0.15	423	240	1.41	30x50	LHB2I471MR050***
		0.15	423	240	1.48	35x40	LHB2I471MS040***
	560	0.15	355	201	1.63	35x40	LHB2I561MS040***
	680	0.15	293	166	1.85	35x50	LHB2I681MS050***
	820	0.15	243	138	2.22	35x55	LHB2I821MS055***
	1000	0.15	199	113	2.52	35x65	LHB2I102MS065***
	1200	0.15	166	94	2.81	35x75	LHB2I122MS075***
450 2W (500)	120	0.15	2212	885	0.59	22x40	LHB2W121MP040***
		0.15	2212	885	0.59	22x35	LHB2W121MP035***
		0.15	2212	885	0.59	25x25	LHB2W121MQ025***
	150	0.15	1769	708	0.67	22x40	LHB2W151MP040***
		0.15	1769	708	0.67	25x30	LHB2W151MQ030***
	180	0.15	1474	590	0.81	22x45	LHB2W181MP045***
		0.15	1474	590	0.81	25x35	LHB2W181MQ035***
		0.15	1474	590	0.81	30x25	LHB2W181MR025***
	220	0.15	1206	483	0.89	22x50	LHB2W221MP050***
		0.15	1206	483	0.89	25x40	LHB2W221MQ040***
		0.15	1206	483	0.89	30x30	LHB2W221MR030***
	270	0.15	983	393	0.96	25x45	LHB2W271MQ045***
		0.15	983	393	0.96	30x35	LHB2W271MR035***
		0.15	983	393	1.04	35x30	LHB2W271MS030***
	330	0.15	804	322	1.11	30x40	LHB2W331MR040***
	390	0.15	680	272	1.26	30x45	LHB2W391MR045***
		0.15	680	272	1.26	35x35	LHB2W391MS035***
		0.15	680	272	1.26	35x40	LHB2W391MS040***
	470	0.15	565	226	1.48	35x40	LHB2W471MS040***
		0.15	565	226	1.48	35x45	LHB2W471MS045***
		0.15	565	226	1.48	35x50	LHB2W471MS050***
	560	0.15	474	190	1.63	35x50	LHB2W561MS050***
	680	0.15	390	156	1.93	35x55	LHB2W681MS055***
		0.15	390	156	1.93	35x60	LHB2W681MS060***
	820	0.15	324	129	2.22	35x65	LHB2W821MS065***
	1000	0.15	265	106	2.52	35x75	LHB2W102MS075***
		0.15	265	106	2.52	40x65	LHB2W102MB065***
	1200	0.15	221	88	2.74	40x75	LHB2W122MB075***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	100	0.15	2654	1062	0.59	25x30	LHB2H101MQ030***
	120	0.15	2212	885	0.67	25x35	LHB2H121MQ035***
		0.15	2212	885	0.67	30x30	LHB2H121MR030***
	150	0.15	2212	708	0.74	30x30	LHB2H151MR030***
	180	0.15	1474	590	0.89	30x35	LHB2H181MR035***
	220	0.15	1206	483	0.74	25x50	LHB2H221MQ050***
		0.15	1206	483	0.96	30x40	LHB2H221MR040***
		0.15	1206	483	0.89	35x35	LHB2H221MS035***
	270	0.15	983	393	1.11	30x50	LHB2H271MR050***
		0.15	983	393	1.11	35x40	LHB2H271MS040***
	330	0.15	804	322	1.19	35x45	LHB2H331MS045***
	390	0.15	680	272	1.33	35x50	LHB2H391MS050***
	470	0.15	565	226	1.48	35x55	LHB2H471MS055***
		0.15	565	226	1.48	35x60	LHB2H471MS060***
	560	0.15	474	190	1.63	35x65	LHB2H561MS065***
		0.15	474	190	1.63	40x50	LHB2H561MB050***
	680	0.15	390	156	1.78	35x70	LHB2H681MS070***
		0.15	390	156	1.78	40x60	LHB2H681MB060***
	820	0.15	324	129	1.93	40x70	LHB2H821MB070***
	1000	0.15	265	106	2.07	45x70	LHB2H102MV070***
	1200	0.15	221	88	2.37	45x80	LHB2H122MV080***
550 2Y (600)	270	0.15	1229	590	0.96	35x50	LHB2Y271MS050***
	330	0.15	1005	483	1.04	35x60	LHB2Y331MS060***
	390	0.15	851	408	1.19	35x65	LHB2Y391MS065***
	470	0.15	706	339	1.33	35x70	LHB2Y471MS070***
		0.15	706	339	1.33	40x65	LHB2Y471MB065***
	560	0.15	592	284	1.48	35x80	LHB2Y561MS080***
		0.15	592	284	1.48	40x70	LHB2Y561MB070***
	680	0.15	488	234	1.70	40x80	LHB2Y681MB080***
		0.15	488	234	1.70	45x70	LHB2Y681MV070***

*** Indicates terminal type, length, and sleeve color.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LHC series 105℃ 8000 hours

LHB longer life LHC longer life LHD
↑ 105℃ ↑ 105℃
LKB longer life LKC higer current LCC



- Rohs requirements
- 105℃ 8000 hours series
- Used for industrial power supplies,servo, inverter, and other industrial products

■ Product description

Item	Characteristic		
Operating temperature range	-40℃ ~ +105℃	-25℃ ~ +105℃	
Rated voltage(WV/V)	160V ~ 450V	460V ~ 550V	
Capacitance(CAP/C)	100 ~ 3300μF		
Tolerance(CAP/C)	±20% (25℃, 120Hz)		
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)		
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	160 ~ 450	460 ~ 550
	DF	0.15	0.15
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	160 ~ 450	460 ~ 550
	Z(-25℃/Z(+25℃)	4	10
	Z(-40℃/Z(+25℃)	8	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6		
	C(-25℃/C(+25℃)≥0.7		

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	10000h	>180000h	8000h	8000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

■ Ripple current correction factor

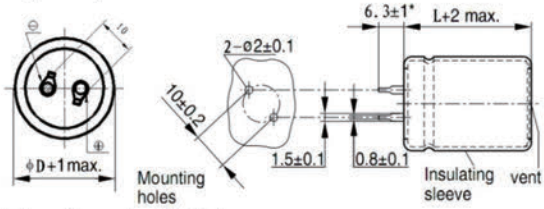
Temp.℃	40	55	85	105
Coefficient	3.0	2.8	2.0	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.15	1.30	1.41

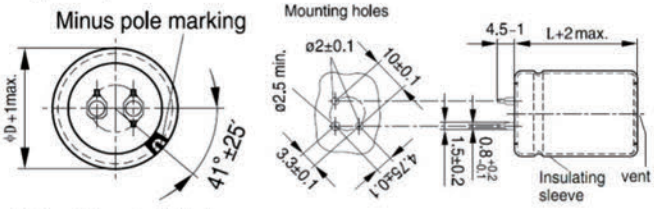
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

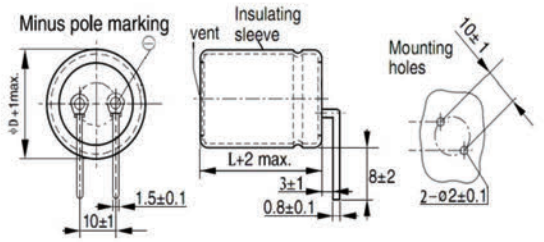
K-Type(Snap in 2 Pins):



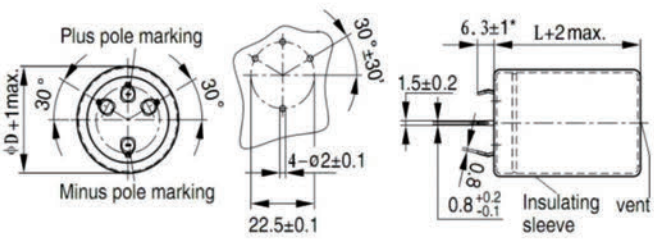
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LHC series:105℃ 8000 hours,long lifetime snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
160 2C (200)	470	0.15	423	254	1.2	22x50	LHC2C471MP050***
	560	0.15	355	213	1.36	22x50	LHC2C561MP050***
	680	0.15	293	176	1.52	22x50	LHC2C681MP050***
		0.15	293	176	1.44	25x50	LHC2C681MQ050***
	820	0.15	243	146	1.68	22x60	LHC2C821MP060***
		0.15	243	146	1.68	25x50	LHC2C821MQ050***
	1000	0.15	199	119	1.92	22x60	LHC2C102MP060***
		0.15	199	119	1.92	25x60	LHC2C102MQ060***
		0.15	199	119	2	30x45	LHC2C102MR045***
	1200	0.15	166	100	2.24	25x60	LHC2C122MQ060***
		0.15	166	100	2.24	30x40	LHC2C122MR040***
		0.15	166	100	2.24	35x30	LHC2C122MS030***
	1500	0.15	133	80	2.48	25x65	LHC2C152MQ065***
		0.15	133	80	2.48	25x70	LHC2C152MQ070***
		0.15	133	80	2.56	30x50	LHC2C152MR050***
	1800	0.15	111	66	2.88	25x70	LHC2C182MQ070***
		0.15	111	66	2.88	30x60	LHC2C182MR060***
		0.15	111	66	2.8	35x40	LHC2C182MS040***
	2200	0.15	90	54	3.28	30x55	LHC2C222MR055***
		0.15	90	54	3.28	30x60	LHC2C222MR060***
		0.15	90	54	3.2	35x50	LHC2C222MS050***
		0.15	90	54	3.2	35x45	LHC2C222MS045***
	2700	0.15	74	44	3.68	35x50	LHC2C272MS050***
		0.15	74	44	3.84	35x55	LHC2C272MS055***
	3300	0.15	60	36	4.32	35x60	LHC2C332MS060***
200 2D (250)	390	0.15	510	306	1.04	22x50	LHC2D391MP050***
	470	0.15	423	254	1.2	22x50	LHC2D471MP050***
	560	0.15	355	213	1.36	22x60	LHC2D561MP060***
		0.15	355	213	1.28	25x50	LHC2D561MQ050***
	680	0.15	293	176	1.52	22x60	LHC2D681MP060***
		0.15	293	176	1.52	25x50	LHC2D681MQ050***
		0.15	293	176	1.52	30x45	LHC2D681MR045***
	820	0.15	243	146	1.76	22x70	LHC2D821MP070***
		0.15	243	146	1.76	25x60	LHC2D821MQ060***
	1000	0.15	199	119	2	25x60	LHC2D102MQ060***
		0.15	199	119	2	30x40	LHC2D102MR040***
		0.15	199	119	2.16	35x35	LHC2D102MS035***
		0.15	199	119	2.16	35x40	LHC2D102MS040***
	1200	0.15	166	100	2.16	25x70	LHC2D122MQ070***
		0.15	166	100	2.24	30x50	LHC2D122MR050***
		0.15	166	100	2.24	30x60	LHC2D122MR060***
		0.15	166	100	2.4	35x40	LHC2D122MS040***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
200 2D (250)	1500	0.15	133	80	2.64	30x60	LHC2D152MR060***
		0.15	133	80	2.64	30x65	LHC2D152MR065***
		0.15	133	80	2.72	35x50	LHC2D152MS050***
	1800	0.15	111	66	2.96	30x70	LHC2D182MR070***
		0.15	111	66	3.04	35x55	LHC2D182MS055***
		0.15	111	66	3.04	35x60	LHC2D182MS060***
	2200	0.15	90	54	3.44	35x60	LHC2D222MS060***
		0.15	90	54	3.44	35x65	LHC2D222MS065***
	2700	0.15	74	44	3.92	35x70	LHC2D272MS070***
250 2E (300)	270	0.15	737	442	0.88	22x45	LHC2E271MP045***
	330	0.15	603	362	1.04	22x50	LHC2E331MP050***
	390	0.15	510	306	1.12	22x55	LHC2E391MP055***
		0.15	510	306	1.12	25x45	LHC2E391MQ045***
	470	0.15	423	254	1.28	22x60	LHC2E471MP060***
		0.15	423	254	1.28	25x50	LHC2E471MQ050***
	560	0.15	355	213	1.44	22x65	LHC2E561MP065***
		0.15	355	213	1.44	25x55	LHC2E561MQ055***
		0.15	355	213	1.44	30x35	LHC2E561MR035***
	680	0.15	293	176	1.6	25x60	LHC2E681MQ060***
		0.15	293	176	1.68	30x40	LHC2E681MR040***
		0.15	293	176	1.76	35x30	LHC2E681MS030***
	820	0.15	243	146	1.84	25x65	LHC2E821MQ065***
		0.15	243	146	1.92	30x45	LHC2E821MR045***
		0.15	243	146	2	35x35	LHC2E821MS035***
	1000	0.15	199	119	2.16	30x50	LHC2E102MR050***
	1200	0.15	166	100	2.4	35x50	LHC2E122MS050***
		0.15	166	100	2.4	35x55	LHC2E122MS055***
		0.15	166	100	2.56	35x60	LHC2E122MS060***
	1500	0.15	133	80	2.88	35x50	LHC2E152MS050***
	1800	0.15	111	66	3.2	35x60	LHC2E182MS060***
315 2F (365)	180	0.15	1106	663	0.8	22x50	LHC2F181MP050***
	220	0.15	905	543	0.88	22x50	LHC2F221MP050***
	270	0.15	737	442	0.96	22x55	LHC2F271MP055***
		0.15	737	442	0.96	25x50	LHC2F271MQ050***
	330	0.15	603	362	1.12	22x60	LHC2F331MP060***
	390	0.15	510	306	1.28	22x65	LHC2F391MP065***
		0.15	510	306	1.28	22x70	LHC2F391MP070***
		0.15	510	306	1.28	25x60	LHC2F391MQ060***
	470	0.15	423	254	1.44	22x65	LHC2F471MP065***
		0.15	423	254	1.44	25x50	LHC2F471MQ050***
		0.15	423	254	1.44	30x40	LHC2F471MR040***
		0.15	423	254	1.12	35x30	LHC2F471MS030***

■ LHC series:105℃ 8000 hours,long lifetime snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
315 2F (365)	560	0.15	355	213	1.6	25x70	LHC2F561MQ070***
		0.15	355	213	1.5	30x50	LHC2F561MR050***
		0.15	355	213	1.6	30x45	LHC2F561MR045***
	680	0.15	293	176	1.8	30x50	LHC2F681MR050***
		0.15	293	176	1.8	30x60	LHC2F681MR060***
		0.15	293	176	1.8	35x40	LHC2F681MS040***
	820	0.15	243	146	2.0	30x60	LHC2F821MR060***
		0.15	243	146	2.1	35x45	LHC2F821MS045***
	1000	0.15	199	119	2.3	35x50	LHC2F102MS050***
	1200	0.15	166	100	2.6	35x60	LHC2F122MS060***
		0.15	166	100	2.6	35x70	LHC2F122MS070***
350 2V (400)	120	0.15	1659	995	0.6	22x50	LHC2V121MP050***
	150	0.15	1327	796	0.6	22x50	LHC2V151MP050***
	180	0.15	1106	663	0.7	22x60	LHC2V181MP060***
		0.15	1106	663	0.7	25x60	LHC2V181MQ060***
	220	0.15	905	543	0.8	22x60	LHC2V221MP060***
		0.15	905	543	0.8	25x50	LHC2V221MQ050***
		0.15	905	543	0.8	30x35	LHC2V221MR035***
	270	0.15	737	442	1.0	22x70	LHC2V271MP070***
		0.15	737	442	1.0	22x80	LHC2V271MP080***
		0.15	737	442	1.0	25x60	LHC2V271MQ060***
		0.15	737	442	1.0	30x40	LHC2V271MR040***
	330	0.15	603	362	1.1	22x70	LHC2V331MP070***
		0.15	603	362	1.1	25x60	LHC2V331MQ060***
		0.15	603	362	1.1	30x40	LHC2V331MR040***
	390	0.15	510	306	1.3	25x60	LHC2V391MQ060***
		0.15	510	306	1.3	25x70	LHC2V391MQ070***
		0.15	510	306	1.3	30x45	LHC2V391MR045***
	470	0.15	423	254	1.4	25x70	LHC2V471MQ070***
		0.15	423	254	1.4	30x45	LHC2V471MR045***
		0.15	423	254	1.4	35x50	LHC2V471MS050***
	560	0.15	355	213	1.6	30x60	LHC2V561MR060***
		0.15	355	213	1.6	35x40	LHC2V561MS040***
	680	0.15	293	176	1.9	30x60	LHC2V681MR060***
		0.15	293	176	1.9	35x50	LHC2V681MS050***
	820	0.15	243	146	2.1	35x50	LHC2V821MS050***
		0.15	243	146	2.1	35x60	LHC2V821MS060***
	1000	0.15	199	119	2.2	35x60	LHC2V102MS060***
		0.15	199	119	2.2	40x50	LHC2V102MB050***
	1200	0.15	141	91	2.4	35x70	LHC2V122MS070***
		0.15	141	91	2.4	40x60	LHC2V122MB060***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	150	0.15	1327	708	0.72	22x50	LHC2G151MP050***
		0.15	1327	708	0.72	25x45	LHC2G151MQ045***
	180	0.15	1106	590	0.8	22x60	LHC2G181MP060***
		0.15	1106	590	0.8	25x50	LHC2G181MQ050***
	220	0.15	905	483	0.88	22x60	LHC2G221MP060***
		0.15	905	483	0.88	25x50	LHC2G221MQ050***
		0.15	905	483	0.96	30x50	LHC2G221MR050***
	270	0.15	737	393	1.04	22x70	LHC2G271MP070***
		0.15	737	393	1.04	25x60	LHC2G271MQ060***
		0.15	737	393	1.04	30x40	LHC2G271MR040***
	330	0.15	603	322	1.2	25x60	LHC2G331MQ060***
		0.15	603	322	1.12	30x40	LHC2G331MR040***
		0.15	603	322	1.2	35x30	LHC2G331MS030***
	390	0.15	510	272	1.28	25x70	LHC2G391MQ070***
		0.15	510	357	1.28	30x45	LHC2G391MR045***
		0.15	510	272	1.36	35x40	LHC2G391MS040***
	470	0.15	423	226	1.44	30x60	LHC2G471MR060***
		0.15	423	226	1.52	35x40	LHC2G471MS040***
	560	0.15	355	190	1.68	30x60	LHC2G561MR060***
		0.15	355	190	1.68	35x50	LHC2G561MS050***
	680	0.15	293	156	1.92	35x50	LHC2G681MS050***
	820	0.15	243	170	2.16	35x60	LHC2G821MS060***
	1000	0.15	199	106	2.56	35x70	LHC2G102MS070***
	1200	0.15	166	88	2.96	35x80	LHC2G122MS080***
420 2I (470)	100	0.15	1990	1128	0.56	22x50	LHC2I101MP050***
	120	0.15	1659	940	0.64	22x50	LHC2I121MP050***
		0.15	1659	940	0.64	25x50	LHC2I121MQ050***
	150	0.15	1327	752	0.72	22x60	LHC2I151MP060***
	180	0.15	1106	627	0.8	22x60	LHC2I181MP060***
		0.15	1106	627	0.8	25x50	LHC2I181MQ050***
		0.15	1106	627	0.88	30x40	LHC2I181MR040***
	220	0.15	905	513	0.96	22x70	LHC2I221MP070***
		0.15	905	513	0.96	22x80	LHC2I221MP080***
		0.15	905	513	0.96	25x60	LHC2I221MQ060***
		0.15	905	513	0.96	30x40	LHC2I221MR040***
	270	0.15	737	418	1.04	25x60	LHC2I271MQ060***
		0.15	737	418	1.04	30x40	LHC2I271MR040***
		0.15	737	418	1.12	35x30	LHC2I271MS030***
	330	0.15	603	342	1.2	25x70	LHC2I331MQ070***
		0.15	603	342	1.2	30x50	LHC2I331MR050***
		0.15	603	342	1.28	35x35	LHC2I331MS035***

■ LHC series:105℃ 8000 hours,long lifetime snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (470)	390	0.15	510	289	1.36	30x50	LHC2I391MR050***
		0.15	510	289	1.36	35x35	LHC2I391MS035***
		0.15	510	289	1.36	35x40	LHC2I391MS040***
	470	0.15	423	240	1.52	30x60	LHC2I471MR060***
		0.15	423	240	1.6	35x45	LHC2I471MS045***
	560	0.15	355	201	1.76	35x45	LHC2I561MS045***
	680	0.15	293	166	2	35x55	LHC2I681MS055***
	820	0.15	243	138	2.4	35x60	LHC2I821MS060***
	1000	0.15	199	113	2.72	35x70	LHC2I102MS070***
	1200	0.15	166	94	3.04	35x80	LHC2I122MS080***
450 2W (500)	120	0.15	2212	885	0.64	22x50	LHC2W121MP050***
		0.15	2212	885	0.64	22x55	LHC2W121MP055***
		0.15	2212	885	0.64	25x45	LHC2W121MQ045***
	150	0.15	1769	708	0.72	22x60	LHC2W151MP060***
		0.15	1769	708	0.72	25x50	LHC2W151MQ050***
	180	0.15	1474	590	0.88	22x65	LHC2W181MP065***
		0.15	1474	590	0.88	25x55	LHC2W181MQ055***
		0.15	1474	590	0.88	30x35	LHC2W181MR035***
	220	0.15	1206	483	0.96	22x70	LHC2W221MP070***
		0.15	1206	483	0.96	25x60	LHC2W221MQ060***
		0.15	1206	483	0.96	30x40	LHC2W221MR040***
	270	0.15	983	393	1.04	25x65	LHC2W271MQ065***
		0.15	983	393	1.04	30x45	LHC2W271MR045***
		0.15	983	393	1.12	35x35	LHC2W271MS035***
	330	0.15	804	322	1.2	30x50	LHC2W331MR050***
	390	0.15	680	272	1.36	30x55	LHC2W391MR055***
		0.15	680	272	1.36	35x40	LHC2W391MS040***
		0.15	680	272	1.36	35x45	LHC2W391MS045***
	470	0.15	565	226	1.6	35x45	LHC2W471MS045***
		0.15	565	226	1.6	35x50	LHC2W471MS050***
		0.15	565	226	1.6	35x55	LHC2W471MS055***
	560	0.15	474	190	1.76	35x55	LHC2W561MS055***
	680	0.15	390	156	2.08	35x60	LHC2W681MS060***
		0.15	390	156	2.08	35x65	LHC2W681MS065***
	820	0.15	324	129	2.4	35x70	LHC2W821MS070***
	1000	0.15	265	106	2.72	35x80	LHC2W102MS080***
		0.15	265	106	2.72	40x70	LHC2W102MB070***
	1200	0.15	221	88	2.96	35x100	LHC2W122MS100***
		0.15	221	88	2.96	40x80	LHC2W102MB080***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	100	0.15	2654	1062	0.64	25x50	LHC2H101MQ050***
	120	0.15	2212	885	0.72	25x60	LHC2H121MQ060***
		0.15	2212	885	0.72	30x40	LHC2H121MR040***
	150	0.15	2212	708	0.8	30x40	LHC2H151MR040***
	180	0.15	1474	590	0.96	30x50	LHC2H181MR050***
	220	0.15	1206	483	0.8	25x70	LHC2H221MQ070***
		0.15	1206	483	1.04	30x50	LHC2H221MR050***
		0.15	1206	483	0.96	35x40	LHC2H221MS040***
	270	0.15	983	393	1.2	30x60	LHC2H271MR060***
		0.15	983	393	1.2	35x50	LHC2H271MS050***
	330	0.15	804	322	1.28	35x50	LHC2H331MS050***
	390	0.15	680	272	1.44	35x60	LHC2H391MS060***
	470	0.15	565	226	1.6	35x60	LHC2H471MS060***
		0.15	565	226	1.6	35x70	LHC2H471MS070***
	560	0.15	474	190	1.76	35x70	LHC2H561MS070***
		0.15	474	190	1.76	40x60	LHC2H561MB060***
	680	0.15	390	156	1.92	35x80	LHC2H681MS080***
		0.15	390	156	1.92	40x70	LHC2H681MB070***
	820	0.15	324	129	2.08	35x100	LHC2H821MS100***
		0.15	324	129	2.08	40x80	LHC2H821MB080***
	1000	0.15	265	106	2.24	40x100	LHC2H102MB100***
		0.15	265	106	2.24	45x80	LHC2H102MV080***
	1200	0.15	128	88	2.56	45x90	LHC2H122MV090***
	1500	0.15	128	68	2.88	45x110	LHC2H152MV110***
550 2Y (600)	180	0.15	2108	881	0.64	35x40	LHC2Y181MS040***
	220	0.15	1750	698	0.88	35x50	LHC2Y221MS050***
	270	0.15	1229	590	1.04	35x60	LHC2Y271MS060***
	330	0.15	1005	483	1.12	35x70	LHC2Y331MS070***
	390	0.15	851	408	1.28	35x70	LHC2Y391MS070***
	470	0.15	706	339	1.44	35x80	LHC2Y471MS080***
		0.15	706	339	1.44	40x70	LHC2Y471MB070***
	560	0.15	592	284	1.6	35x90	LHC2Y561MS090***
		0.15	592	284	1.6	40x80	LHC2Y561MB080***
	680	0.15	488	234	1.84	40x90	LHC2Y681MB090***
		0.15	488	234	1.84	45x80	LHC2Y681MV080***
	820	0.15	320	189	2.08	40x100	LHC2Y821MB100***
		0.15	320	189	2.08	45x90	LHC2Y821MV090***
	1000	0.15	280	161	2.32	40x100	LHC2Y102MB100***
		0.15	280	161	2.32	45x90	LHC2Y102MV090***

*** Indicates terminal type, length, and sleeve color.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LHD series 105℃ 10000 hours

LHC longer life LHD longer life LHE
↑ 105℃ ↑ 105℃
LKC longer life LKD higer current LCD

- Rohs requirements
- 105℃ 10000 hours series
- Used for industrial power supplies and other industrial products



■ Product description

Item	Characteristic		
Operating temperature range	-40℃ ~ +105℃	-25℃ ~ +105℃	
Rated voltage(WV/V)	160V ~ 450V	460V ~ 550V	
Capacitance(CAP/C)	100 ~ 3300μF		
Tolerance(CAP/C)	±20% (25℃, 120Hz)		
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)		
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	160 ~ 450	460 ~ 550
	DF	0.15	0.15
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	160 ~ 100	460 ~ 550
	Z(-25℃/Z(+25℃)	4	10
	Z(-40℃/Z(+25℃)	8	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6		
	C(-25℃/C(+25℃)≥0.7		

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	12000h	>220000h	10000h	10000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

■ Ripple current correction factor

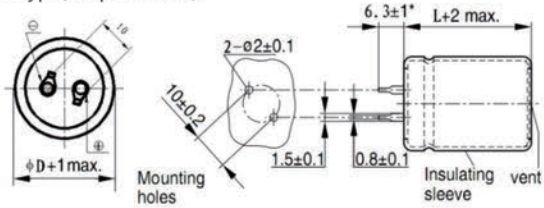
Temp.℃	40	55	85	105
Coefficient	3.0	2.8	2.0	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.15	1.30	1.41

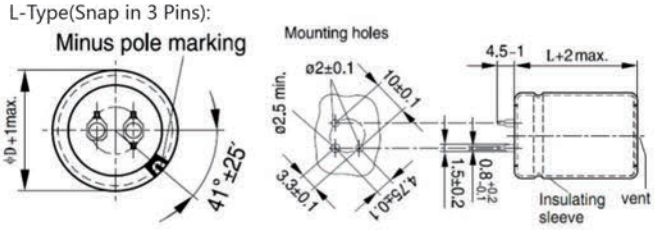
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

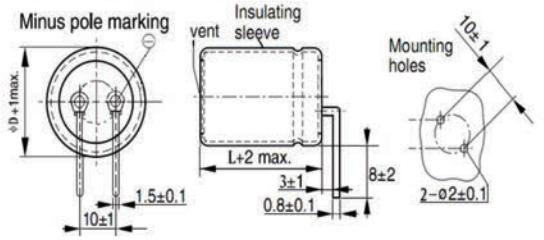
K-Type(Snap in 2 Pins):



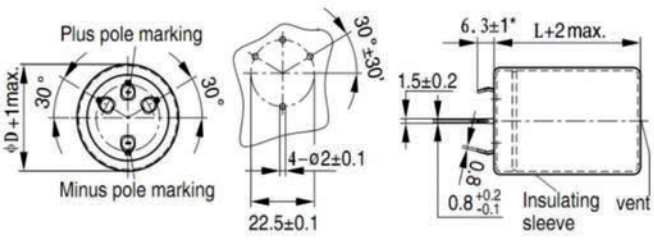
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LHD series:105℃ 10000 hours,long lifetime snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
160 2C (200)	470	0.15	423	254	1.2	22x50	LHD2C471MP050***
	560	0.15	355	213	1.36	22x50	LHD2C561MP050***
	680	0.15	293	176	1.52	22x50	LHD2C681MP050***
		0.15	293	176	1.44	25x60	LHD2C681MQ060***
	820	0.15	243	146	1.68	22x70	LHD2C821MP070***
		0.15	243	146	1.68	25x60	LHD2C821MQ060***
	1000	0.15	199	119	1.92	22x80	LHD2C102MP080***
		0.15	199	119	1.92	25x70	LHD2C102MQ070***
		0.15	199	119	2	30x50	LHD2C102MR050***
	1200	0.15	166	100	2.24	25x70	LHD2C122MQ070***
		0.15	166	100	2.24	30x50	LHD2C122MR050***
		0.15	166	100	2.24	35x35	LHD2C122MS035***
	1500	0.15	133	80	2.48	25x80	LHD2C152MQ080***
		0.15	133	80	2.48	25x85	LHD2C152MQ085***
		0.15	133	80	2.56	30x60	LHD2C152MR060***
	1800	0.15	111	66	2.88	25x80	LHD2C182MQ080***
		0.15	111	66	2.88	30x70	LHD2C182MR070***
		0.15	111	66	2.8	35x40	LHD2C182MS040***
	2200	0.15	90	54	3.28	30x70	LHD2C222MR070***
		0.15	90	54	3.28	30x75	LHD2C222MR075***
		0.15	90	54	3.2	35x50	LHD2C222MS050***
		0.15	90	54	3.2	35x55	LHD2C222MS055***
	2700	0.15	74	44	3.68	35x60	LHD2C272MS060***
		0.15	74	44	3.84	35x65	LHD2C272MS065***
	3300	0.15	60	36	4.32	35x70	LHD2C332MS070***
200 2D (250)	390	0.15	510	306	1.04	22x50	LHD2D391MP050***
	470	0.15	423	254	1.2	22x50	LHD2D471MP050***
	560	0.15	355	213	1.36	22x70	LHD2D561MP070***
		0.15	355	213	1.28	25x60	LHD2D561MQ060***
	680	0.15	293	176	1.52	22x70	LHD2D681MP070***
		0.15	293	176	1.52	25x60	LHD2D681MQ060***
		0.15	293	176	1.52	30x50	LHD2D681MR050***
	820	0.15	243	146	1.76	22x80	LHD2D821MP080***
		0.15	243	146	1.76	25x70	LHD2D821MQ070***
	1000	0.15	199	119	2	25x70	LHD2D102MQ070***
		0.15	199	119	2	30x50	LHD2D102MR050***
		0.15	199	119	2.16	35x40	LHD2D102MS040***
		0.15	199	119	2.16	35x45	LHD2D102MS045***
	1200	0.15	166	100	2.16	30x60	LHD2D122MR060***
		0.15	166	100	2.24	30x50	LHD2D122MR050***
		0.15	166	100	2.24	30x55	LHD2D122MR055***
		0.15	166	100	2.4	35x40	LHD2D122MS040***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
200 2D (250)	1500	0.15	133	80	2.64	30x60	LHD2D152MR060***
		0.15	133	80	2.64	30x65	LHD2D152MR065***
		0.15	133	80	2.72	35x50	LHD2D152MS050***
	1800	0.15	111	66	2.96	30x70	LHD2D182MR070***
		0.15	111	66	3.04	35x50	LHD2D182MS050***
		0.15	111	66	3.04	35x60	LHD2D182MS060***
	2200	0.15	90	54	3.44	35x60	LHD2D222MS060***
		0.15	90	54	3.44	35x65	LHD2D222MS065***
	2700	0.15	74	44	3.92	35x70	LHD2D272MS070***
250 2E (300)	270	0.15	737	442	0.88	22x50	LHD2E271MP050***
	330	0.15	603	362	1.04	22x60	LHD2E331MP060***
	390	0.15	510	306	1.12	22x65	LHD2E391MP065***
		0.15	510	306	1.12	25x50	LHD2E391MQ050***
	470	0.15	423	254	1.28	22x70	LHD2E471MP070***
		0.15	423	254	1.28	25x60	LHD2E471MQ060***
	560	0.15	355	213	1.44	22x80	LHD2E561MP080***
		0.15	355	213	1.44	25x60	LHD2E561MQ060***
		0.15	355	213	1.44	30x40	LHD2E561MR040***
	680	0.15	293	176	1.6	25x70	LHD2E681MQ070***
		0.15	293	176	1.68	30x50	LHD2E681MR050***
		0.15	293	176	1.76	35x40	LHD2E681MS040***
	820	0.15	243	146	1.84	25x70	LHD2E821MQ070***
		0.15	243	146	1.92	30x50	LHD2E821MR050***
		0.15	243	146	2	35x55	LHD2E821MS055***
	1000	0.15	199	119	2.16	30x60	LHD2E102MR060***
	1200	0.15	166	100	2.4	35x60	LHD2E122MS060***
		0.15	166	100	2.4	35x50	LHD2E122MS050***
		0.15	166	100	2.56	35x55	LHD2E122MS055***
	1500	0.15	133	80	2.88	35x60	LHD2E152MS060***
	1800	0.15	111	66	3.2	35x70	LHD2E182MS070***
315 2F (365)	180	0.15	1106	663	0.8	22x50	LHD2F181MP050***
	220	0.15	905	543	0.88	22x60	LHD2F221MP060***
	270	0.15	737	442	0.96	22x60	LHD2F271MP060***
		0.15	737	442	0.96	25x60	LHD2F271MQ060***
	330	0.15	603	362	1.12	22x70	LHD2F331MP070***
	390	0.15	510	306	1.28	22x70	LHD2F391MP070***
		0.15	510	306	1.28	22x80	LHD2F391MP080***
		0.15	510	306	1.28	25x70	LHD2F391MQ070***
	470	0.15	423	254	1.44	22x80	LHD2F471MP080***
		0.15	423	254	1.44	25x70	LHD2F471MQ070***
		0.15	423	254	1.44	30x50	LHD2F471MR050***
		0.15	323	254	1.44	35x40	LHD2F471MS040***

■ LHD series:105℃ 10000 hours,long lifetime snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
315 2F (365)	560	0.15	355	213	1.6	25x70	LHD2F561MQ070***
		0.15	355	213	1.5	30x45	LHD2F561MR045***
		0.15	355	213	1.6	30x50	LHD2F561MR050***
	680	0.15	293	176	1.8	30x50	LHD2F681MR050***
		0.15	293	176	1.8	30x60	LHD2F681MR060***
		0.15	293	176	1.8	35x40	LHD2F681MS040***
	820	0.15	243	146	2.0	30x60	LHD2F821MR060***
		0.15	243	146	2.1	35x45	LHD2F821MS045***
	1000	0.15	199	119	2.3	35x55	LHD2F102MS055***
	1200	0.15	166	100	2.6	35x60	LHD2F122MS060***
		0.15	166	100	2.6	35x70	LHD2F122MS070***
350 2V (400)	120	0.15	1659	995	0.6	22x50	LHD2V121MP050***
	150	0.15	1327	796	0.6	22x50	LHD2V151MP050***
	180	0.15	1106	663	0.7	22x60	LHD2V181MP060***
		0.15	1106	663	0.7	25x70	LHD2V181MQ070***
	220	0.15	905	543	0.8	22x60	LHD2V221MP060***
		0.15	905	543	0.8	25x50	LHD2V221MQ050***
		0.15	905	543	0.8	30x35	LHD2V221MR035***
	270	0.15	737	442	1.0	22x70	LHD2V271MP070***
		0.15	737	442	1.0	22x80	LHD2V271MP080***
		0.15	737	442	1.0	25x60	LHD2V271MQ060***
		0.15	737	442	1.0	30x40	LHD2V271MR040***
	330	0.15	603	362	1.1	22x70	LHD2V331MP070***
		0.15	603	362	1.1	25x60	LHD2V331MQ060***
		0.15	603	362	1.1	30x40	LHD2V331MR040***
	390	0.15	510	306	1.3	25x60	LHD2V391MQ060***
		0.15	510	306	1.3	25x70	LHD2V391MQ070***
		0.15	510	306	1.3	30x45	LHD2V391MR045***
	470	0.15	423	254	1.4	25x70	LHD2V471MQ070***
		0.15	423	254	1.4	30x45	LHD2V471MR045***
		0.15	423	254	1.4	35x50	LHD2V471MS050***
	560	0.15	355	213	1.6	30x60	LHD2V561MR060***
		0.15	355	213	1.6	35x40	LHD2V561MS040***
	680	0.15	293	176	1.9	30x60	LHD2V681MR060***
		0.15	293	176	1.9	35x50	LHD2V681MS050***
	820	0.15	243	146	2.1	35x50	LHD2V821MS050***
		0.15	243	146	2.1	35x60	LHD2V821MS060***
	1000	0.15	199	119	2.2	35x60	LHD2V102MS060***
		0.15	199	119	2.2	40x50	LHD2V102MB050***
	1200	0.15	141	91	2.4	35x70	LHD2V122MS070***
		0.15	141	91	2.4	40x60	LHD2V122MB060***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	150	0.15	1327	708	0.72	22x50	LHD2G151MP050***
		0.15	1327	708	0.72	25x45	LHD2G151MQ045***
	180	0.15	1106	590	0.8	22x60	LHD2G181MP060***
		0.15	1106	590	0.8	25x50	LHD2G181MQ050***
	220	0.15	905	483	0.88	22x60	LHD2G221MP060***
		0.15	905	483	0.88	25x50	LHD2G221MQ050***
		0.15	905	483	0.96	30x50	LHD2G221MR050***
	270	0.15	737	393	1.04	22x70	LHD2G271MP070***
		0.15	737	393	1.04	25x60	LHD2G271MQ060***
		0.15	737	393	1.04	30x40	LHD2G271MR040***
	330	0.15	603	322	1.2	25x60	LHD2G331MQ060***
		0.15	603	322	1.12	30x40	LHD2G331MR040***
		0.15	603	322	1.2	35x30	LHD2G331MS030***
	390	0.15	510	272	1.28	25x70	LHD2G391MQ070***
		0.15	510	357	1.28	30x45	LHD2G391MR045***
		0.15	510	272	1.36	35x40	LHD2G391MS040***
	470	0.15	423	226	1.44	30x60	LHD2G471MR060***
		0.15	423	226	1.52	35x40	LHD2G471MS040***
	560	0.15	355	190	1.68	30x60	LHD2G561MR060***
		0.15	355	190	1.68	35x50	LHD2G561MS050***
	680	0.15	293	156	1.92	35x50	LHD2G681MS050***
	820	0.15	243	170	2.16	35x60	LHD2G821MS060***
	1000	0.15	199	106	2.56	35x70	LHD2G102MS070***
	1200	0.15	166	88	2.96	35x80	LHD2G122MS080***
420 2I (470)	100	0.15	1990	1128	0.56	22x50	LHD2I101MP050***
	120	0.15	1659	940	0.64	22x50	LHD2I121MP050***
		0.15	1659	940	0.64	25x50	LHD2I121MQ050***
	150	0.15	1327	752	0.72	22x60	LHD2I151MP060***
	180	0.15	1106	627	0.8	22x60	LHD2I181MP060***
		0.15	1106	627	0.8	25x50	LHD2I181MQ050***
		0.15	1106	627	0.88	30x40	LHD2I181MR040***
	220	0.15	905	513	0.96	22x70	LHD2I221MP070***
		0.15	905	513	0.96	22x80	LHD2I221MP080***
		0.15	905	513	0.96	25x60	LHD2I221MQ060***
		0.15	905	513	0.96	30x40	LHD2I221MR040***
	270	0.15	737	418	1.04	25x60	LHD2I271MQ060***
		0.15	737	418	1.04	30x40	LHD2I271MR040***
		0.15	737	418	1.12	35x30	LHD2I271MS030***
	330	0.15	603	342	1.2	25x70	LHD2I331MQ070***
		0.15	603	342	1.2	30x50	LHD2I331MR050***
		0.15	603	342	1.28	35x35	LHD2I331MS035***

■ LHD series:105℃ 10000 hours,long lifetime snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (470)	390	0.15	510	289	1.36	30x50	LHD2I391MR050***
		0.15	510	289	1.36	35x35	LHD2I391MS035***
		0.15	510	289	1.36	35x40	LHD2I391MS040***
	470	0.15	423	240	1.52	30x60	LHD2I471MR060***
		0.15	423	240	1.6	35x45	LHD2I471MS045***
	560	0.15	355	201	1.76	35x45	LHD2I561MS045***
	680	0.15	293	166	2	35x55	LHD2I681MS055***
	820	0.15	243	138	2.4	35x60	LHD2I821MS060***
	1000	0.15	199	113	2.72	35x70	LHD2I102MS070***
	1200	0.15	166	94	3.04	35x80	LHD2I122MS080***
450 2W (500)	120	0.15	2212	885	0.64	22x50	LHD2W121MP050***
		0.15	2212	885	0.64	22x55	LHD2W121MP055***
		0.15	2212	885	0.64	25x45	LHD2W121MQ045***
	150	0.15	1769	708	0.72	22x60	LHD2W151MP060***
		0.15	1769	708	0.72	25x50	LHD2W151MQ050***
	180	0.15	1474	590	0.88	22x65	LHD2W181MP065***
		0.15	1474	590	0.88	25x55	LHD2W181MQ055***
		0.15	1474	590	0.88	30x35	LHD2W181MR035***
	220	0.15	1206	483	0.96	22x70	LHD2W221MP070***
		0.15	1206	483	0.96	25x60	LHD2W221MQ060***
		0.15	1206	483	0.96	30x40	LHD2W221MR040***
	270	0.15	983	393	1.04	25x65	LHD2W271MQ065***
		0.15	983	393	1.04	30x45	LHD2W271MR045***
		0.15	983	393	1.12	35x35	LHD2W271MS035***
	330	0.15	804	322	1.2	30x50	LHD2W331MR050***
	390	0.15	680	272	1.36	30x60	LHD2W391MR060***
		0.15	680	272	1.36	35x50	LHD2W391MS050***
		0.15	680	272	1.36	35x60	LHD2W391MS060***
	470	0.15	565	226	1.6	35x50	LHD2W471MS050***
		0.15	565	226	1.6	35x60	LHD2W471MS060***
		0.15	565	226	1.6	35x70	LHD2W471MS070***
	560	0.15	474	190	1.76	35x60	LHD2W561MS060***
	680	0.15	390	156	2.08	35x70	LHD2W681MS070***
		0.15	390	156	2.08	35x80	LHD2W681MS080***
	820	0.15	324	129	2.4	35x80	LHD2W821MS080***
	1000	0.15	265	106	2.72	35x90	LHD2W102MS090***
		0.15	265	106	2.72	40x80	LHD2W102MB080***
	1200	0.15	221	88	2.96	35x110	LHD2W122MS110***
		0.15	221	88	2.96	40x80	LHD2W122MB080***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	100	0.15	2654	1062	0.64	25x60	LHD2H101MQ060***
	120	0.15	2212	885	0.72	25x60	LHD2H121MQ060***
		0.15	2212	885	0.72	30x50	LHD2H121MR050***
	150	0.15	2212	708	0.8	30x50	LHD2H151MR050***
	180	0.15	1474	590	0.96	30x60	LHD2H181MR060***
	220	0.15	1206	483	0.8	25x80	LHD2H221MQ080***
		0.15	1206	483	1.04	30x60	LHD2H221MR060***
		0.15	1206	483	0.96	35x50	LHD2H221MS050***
	270	0.15	983	393	1.2	30x70	LHD2H271MR070***
		0.15	983	393	1.2	35x60	LHD2H271MS060***
	330	0.15	804	322	1.28	35x60	LHD2H331MS060***
	390	0.15	680	272	1.44	35x70	LHD2H391MS070***
	470	0.15	565	226	1.6	35x70	LHD2H471MS070***
		0.15	565	226	1.6	35x80	LHD2H471MS080***
	560	0.15	474	190	1.76	35x80	LHD2H561MS080***
		0.15	474	190	1.76	40x60	LHD2H561MB060***
	680	0.15	390	156	1.92	35x80	LHD2H681MS080***
		0.15	390	156	1.92	40x70	LHD2H681MB070***
	820	0.15	324	129	2.08	35x100	LHD2H821MS100***
		0.15	324	129	2.08	40x80	LHD2H821MB080***
	1000	0.15	265	106	2.24	40x100	LHD2H102MB100***
		0.15	265	106	2.24	45x80	LHD2H102MV080***
	1200	0.15	128	88	2.56	45x90	LHD2H122MV090***
	1500	0.15	128	68	2.88	45x110	LHD2H152MV110***
550 2Y (600)	180	0.15	2108	881	0.64	35x40	LHD2Y181MS040***
	220	0.15	1750	698	0.88	35x50	LHD2Y221MS050***
	270	0.15	1229	590	1.04	35x60	LHD2Y271MS060***
	330	0.15	1005	483	1.12	35x70	LHD2Y331MS070***
	390	0.15	851	408	1.28	35x70	LHD2Y391MS070***
	470	0.15	706	339	1.44	35x80	LHD2Y471MS080***
		0.15	706	339	1.44	40x70	LHD2Y471MB070***
	560	0.15	592	284	1.6	35x90	LHD2Y561MS090***
		0.15	592	284	1.6	40x80	LHD2Y561MB080***
	680	0.15	488	234	1.84	40x90	LHD2Y681MB090***
		0.15	488	234	1.84	45x80	LHD2Y681MV080***
	820	0.15	320	189	2.08	40x100	LHD2Y821MB100***
		0.15	320	189	2.08	45x90	LHD2Y821MV090***
	1000	0.15	280	161	2.32	40x100	LHD2Y102MB100***
		0.15	280	161	2.32	45x90	LHD2Y102MV090***

*** Indicates terminal type, length, and sleeve color.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LHE series 105℃ 12000 hours

LHC longer life LHD longer life **LHE**
↑105℃ ↑105℃ ↑105℃
LKC longer life LKD longer life LKE



- **Rohs requirements**
- **105℃ 12000 hours series**
- **Used for switching power supply,servo, inverter, and other industrial products**

■ Product description

Item	Characteristic		
Operating temperature range	-40℃ ~ +105℃	-25℃ ~ +105℃	
Rated voltage(WV/V)	160V ~ 450V	460V ~ 550V	
Capacitance(CAP/C)	100 ~ 3300μF		
Tolerance(CAP/C)	±20% (25℃, 120Hz)		
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)		
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	160 ~ 450	460 ~ 550
	DF	0.15	0.15
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	160 ~ 450	460 ~ 550
	Z(-25℃/Z(+25℃)	4	10
	Z(-40℃/Z(+25℃)	8	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6		
	C(-25℃/C(+25℃)≥0.7		

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	15000h	>250000h	12000h	12000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

■ Ripple current correction factor

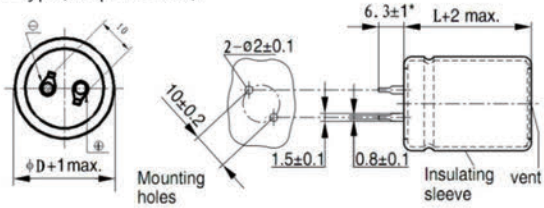
Temp.℃	40	55	85	105
Coefficient	3.0	2.8	2.0	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.15	1.30	1.41

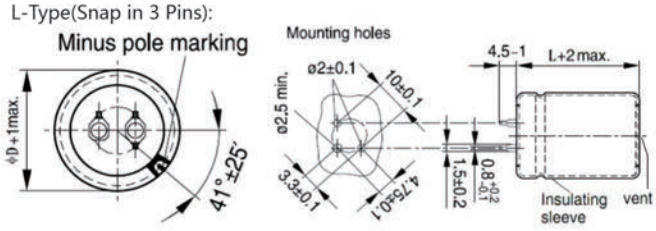
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

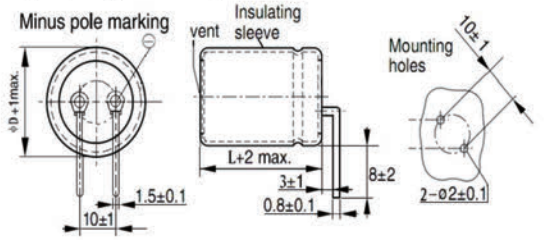
K-Type(Snap in 2 Pins):



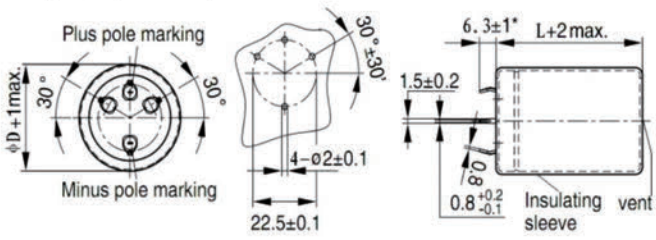
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LHE series:105℃ 12000 hours,long lifetime snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
160 2C (200)	470	0.15	423	254	1.5	22x50	LHE2C471MP050***
	560	0.15	355	213	1.7	22x50	LHE2C561MP050***
	680	0.15	293	176	1.9	25x50	LHE2C681MQ050***
		0.15	293	176	1.8	30x40	LHE2C681MR040***
	820	0.15	243	146	2.1	25x60	LHE2C821MQ060***
		0.15	243	146	2.1	30x50	LHE2C821MR050***
	1000	0.15	199	119	2.4	25x70	LHE2C102MQ070***
		0.15	199	119	2.4	30x60	LHE2C102MR060***
		0.15	199	119	2.5	35x40	LHE2C102MS040***
	1200	0.15	166	100	2.8	30x50	LHE2C122MR050***
		0.15	166	100	2.8	35x40	LHE2C122MS040***
		0.15	166	100	2.8	35x45	LHE2C122MS045***
	1500	0.15	133	80	3.1	30x60	LHE2C152MR060***
		0.15	133	80	3.1	35x45	LHE2C152MS045***
		0.15	133	80	3.2	35x50	LHE2C152MS050***
	1800	0.15	111	66	3.6	30x70	LHE2C182MR070***
		0.15	111	66	3.6	35x50	LHE2C182MS050***
		0.15	111	66	3.5	35x55	LHE2C182MS055***
	2200	0.15	90	54	4.1	30x70	LHE2C222MR070***
		0.15	90	54	4.1	30x75	LHE2C222MR075***
		0.15	90	54	4.0	35x50	LHE2C222MS050***
		0.15	90	54	4.0	35x55	LHE2C222MS055***
	2700	0.15	74	44	4.6	35x60	LHE2C272MS060***
		0.15	74	44	4.8	35x65	LHE2C272MS065***
	3300	0.15	60	36	5.4	35x70	LHE2C332MS070***
200 2D (250)	390	0.15	510	306	1.3	25x50	LHE2D391MQ050***
	470	0.15	423	254	1.5	25x50	LHE2D471MQ050***
	560	0.15	355	213	1.7	25x60	LHE2D561MQ060***
		0.15	355	213	1.6	30x50	LHE2D561MR050***
	680	0.15	293	176	1.9	25x60	LHE2D681MQ060***
		0.15	293	176	1.9	30x50	LHE2D681MR050***
		0.15	293	176	1.9	30x60	LHE2D681MR060***
	820	0.15	243	146	2.2	25x70	LHE2D821MQ070***
		0.15	243	146	2.2	30x60	LHE2D821MR060***
	1000	0.15	199	119	2.5	30x60	LHE2D102MR060***
		0.15	199	119	2.5	35x45	LHE2D102MS045***
		0.15	199	119	2.7	35x50	LHE2D102MS050***
		0.15	199	119	2.7	35x55	LHE2D102MS055***
	1200	0.15	166	100	2.7	25x90	LHE2D122MQ090***
		0.15	166	100	2.8	30x60	LHE2D122MR060***
		0.15	166	100	2.8	30x65	LHE2D122MR065***
		0.15	166	100	3.0	35x60	LHE2D122MS060***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
200 2D (250)	1500	0.15	133	80	3.3	30x75	LHE2D152MR075***
		0.15	133	80	3.3	30x80	LHE2D152MR080***
		0.15	133	80	3.4	35x60	LHE2D152MS060***
	1800	0.15	111	66	3.7	30x90	LHE2D182MR090***
		0.15	111	66	3.8	35x70	LHE2D182MS070***
		0.15	111	66	3.8	35x75	LHE2D182MS075***
	2200	0.15	90	54	4.3	35x80	LHE2D222MS080***
		0.15	90	54	4.3	35x85	LHE2D222MS085***
	2700	0.15	74	44	4.9	35x90	LHE2D272MS090***
250 2E (300)	270	0.15	737	442	1.1	22x50	LHE2E271MP050***
	330	0.15	603	362	1.3	22x60	LHE2E331MP060***
	390	0.15	510	306	1.4	25x45	LHE2E391MQ045***
		0.15	510	306	1.4	30x30	LHE2E391MR030***
	470	0.15	423	254	1.6	25x50	LHE2E471MQ050***
		0.15	423	254	1.6	30x40	LHE2E471MR040***
	560	0.15	355	213	1.8	25x60	LHE2E561MQ060***
		0.15	355	213	1.8	30x40	LHE2E561MR040***
		0.15	355	213	1.8	35x35	LHE2E561MS035***
	680	0.15	293	176	2.0	25x70	LHE2E681MQ070***
		0.15	293	176	2.1	30x50	LHE2E681MR050***
		0.15	293	176	2.2	35x40	LHE2E681MS040***
	820	0.15	243	146	2.3	25x70	LHE2E821MQ070***
		0.15	243	146	2.4	30x50	LHE2E821MR050***
		0.15	243	146	2.5	35x55	LHE2E821MS055***
	1000	0.15	199	119	2.7	30x60	LHE2E102MR060***
	1200	0.15	166	100	3.0	30x60	LHE2E122MR060***
		0.15	166	100	3.0	35x50	LHE2E122MS050***
		0.15	166	100	3.2	35x55	LHE2E122MS055***
	1500	0.15	133	80	3.6	35x60	LHE2E152MS060***
	1800	0.15	111	66	4.0	35x70	LHE2E182MS070***
315 2F (365)	180	0.15	1106	663	1.0	25x40	LHE2F181MQ040***
	220	0.15	905	543	1.1	25x40	LHE2F221MQ040***
	270	0.15	737	442	1.2	25x50	LHE2F271MQ050***
		0.15	737	442	1.2	30x40	LHE2F271MR040***
	330	0.15	603	362	1.4	25x60	LHE2F331MQ060***
	390	0.15	510	306	1.6	25x60	LHE2F391MQ060***
		0.15	510	306	1.6	30x50	LHE2F391MR050***
		0.15	510	306	1.6	35x35	LHE2F391MS035***
	470	0.15	423	254	1.8	25x70	LHE2F471MQ070***
		0.15	423	254	1.8	30x60	LHE2F471MR060***
		0.15	423	254	1.8	35x50	LHE2F471MS050***
		0.15	603	362	1.8	35x55	LHE2F471MS055***

■ LHE series:105℃ 12000 hours,long lifetime snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
315 2F (365)	560	0.15	355	213	2.0	30x50	LHE2F561MR050***
		0.15	355	213	1.9	30x60	LHE2F561MR060***
		0.15	355	213	2.0	35x40	LHE2F561MS040***
	680	0.15	293	176	2.2	30x60	LHE2F681MR060***
		0.15	293	176	2.3	30x65	LHE2F681MR065***
		0.15	293	176	2.2	35x50	LHE2F681MS050***
	820	0.15	243	146	2.5	30x70	LHE2F821MR070***
		0.15	243	146	2.6	35x60	LHE2F821MS060***
	1000	0.15	199	119	2.9	35x60	LHE2F102MS060***
	1200	0.15	166	100	3.3	35x70	LHE2F122MS070***
		0.15	166	100	3.3	35x80	LHE2F122MS080***
350 2V (400)	120	0.15	1659	995	0.7	25x50	LHE2V121MQ050***
	150	0.15	1327	796	0.8	25x50	LHE2V151MQ050***
	180	0.15	1106	663	0.9	25x60	LHE2V181MQ060***
		0.15	1106	663	0.9	25x60	LHE2V181MQ060***
	220	0.15	905	543	1.0	25x60	LHE2V221MQ060***
		0.15	905	543	1.0	30x50	LHE2V221MR050***
		0.15	905	543	1.0	35x35	LHE2V221MS035***
	270	0.15	737	442	1.3	25x70	LHE2V271MQ070***
		0.15	737	442	1.3	30x60	LHE2V271MR060***
		0.15	737	442	1.3	30x65	LHE2V271MR065***
		0.15	737	442	1.3	35x40	LHE2V271MS040***
	330	0.15	603	362	1.4	25x70	LHE2V331MQ070***
		0.15	603	362	1.4	30x60	LHE2V331MR060***
		0.15	603	362	1.4	35x40	LHE2V331MS040***
	390	0.15	510	306	1.6	30x60	LHE2V391MR060***
		0.15	510	306	1.6	30x70	LHE2V391MR070***
		0.15	510	306	1.6	35x45	LHE2V391MS045***
	470	0.15	423	254	1.8	30x70	LHE2V471MR070***
		0.15	423	254	1.8	35x45	LHE2V471MS045***
		0.15	423	254	1.8	35x50	LHE2V471MS050***
	560	0.15	355	213	2.0	35x50	LHE2V561MS050***
		0.15	355	213	2.0	35x60	LHE2V561MS060***
	680	0.15	293	176	2.4	35x60	LHE2V681MS060***
		0.15	293	176	2.4	35x65	LHE2V681MS065***
	820	0.15	243	146	2.6	35x70	LHE2V821MS070***
		0.15	243	146	2.6	35x75	LHE2V821MS075***
	1000	0.15	199	119	2.8	35x70	LHE2V102MS070***
		0.15	199	119	2.8	40x60	LHE2V102MB060***
	1200	0.15	141	91	3.0	35x70	LHE2V122MS070***
		0.15	141	91	3.0	40x60	LHE2V122MB060***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	150	0.15	1327	708	0.9	25x40	LHE2G151MQ040***
		0.15	1327	708	0.9	30x30	LHE2G151MR030***
	180	0.15	1106	590	1.0	25x40	LHE2G181MQ040***
		0.15	1106	590	1.0	30x40	LHE2G181MR040***
	220	0.15	905	483	1.1	25x50	LHE2G221MQ050***
		0.15	905	483	1.1	30x40	LHE2G221MR040***
		0.15	905	483	1.2	35x35	LHE2G221MS035***
	270	0.15	737	393	1.3	25x60	LHE2G271MQ060***
		0.15	737	393	1.3	30x50	LHE2G271MR050***
		0.15	737	393	1.3	35x40	LHE2G271MS040***
	330	0.15	603	322	1.5	25x70	LHE2G331MQ070***
		0.15	603	322	1.4	30x50	LHE2G331MR050***
		0.15	603	322	1.5	35x35	LHE2G331MS035***
	390	0.15	510	272	1.6	25x70	LHE2G391MQ070***
		0.15	510	357	1.6	30x50	LHE2G391MR050***
		0.15	510	272	1.7	35x40	LHE2G391MS040***
	470	0.15	423	226	1.8	30x60	LHE2G471MR060***
		0.15	423	226	1.9	35x40	LHE2G471MS040***
	560	0.15	355	190	2.1	30x70	LHE2G561MR070***
		0.15	355	190	2.1	35x60	LHE2G561MS060***
	680	0.15	293	156	2.4	35x65	LHE2G681MS065***
	820	0.15	243	170	2.7	35x70	LHE2G821MS070***
	1000	0.15	199	106	3.2	35x80	LHE2G102MS080***
	1200	0.15	166	88	3.7	35x90	LHE2G122MS090***
420 2I (470)	100	0.15	1990	1128	0.7	30x40	LHE2I101MR040***
	120	0.15	1659	940	0.8	30x40	LHE2I121MR040***
		0.15	1659	940	0.8	35x35	LHE2I121MS035***
	150	0.15	1327	752	0.9	30x50	LHE2I151MR050***
	180	0.15	1106	627	1.0	25x70	LHE2I181MQ070***
		0.15	1106	627	1.0	30x50	LHE2I181MR050***
		0.15	1106	627	1.1	35x40	LHE2I181MS040***
	220	0.15	905	513	1.2	25x80	LHE2I221MQ080***
		0.15	905	513	1.2	25x90	LHE2I221MQ090***
		0.15	905	513	1.2	30x50	LHE2I221MR050***
		0.15	905	513	1.2	35x50	LHE2I221MS050***
	270	0.15	737	418	1.3	30x55	LHE2I271MR055***
		0.15	737	418	1.3	30x60	LHE2I271MR060***
		0.15	737	418	1.4	35x50	LHE2I271MS050***
	330	0.15	603	342	1.5	30x60	LHE2I331MR060***
		0.15	603	342	1.5	30x65	LHE2I331MR065***
		0.15	603	342	1.6	35x50	LHE2I331MS050***

■ LHE series:105℃ 12000 hours,long lifetime snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (470)	390	0.15	510	289	1.7	30x60	LHE2I391MR060***
		0.15	510	289	1.7	35x50	LHE2I391MS050***
		0.15	510	289	1.7	35x55	LHE2I391MS055***
	470	0.15	423	240	1.9	30x70	LHE2I471MR070***
		0.15	423	240	2.0	35x50	LHE2I471MS050***
	560	0.15	355	201	2.2	35x60	LHE2I561MS060***
	680	0.15	293	166	2.5	35x60	LHE2I681MS060***
	820	0.15	243	138	3.0	35x70	LHE2I821MS070***
	1000	0.15	199	113	3.4	35x80	LHE2I102MS080***
	1200	0.15	166	94	3.8	35x90	LHE2I122MS090***
450 2W (500)	120	0.15	2212	885	0.8	22x60	LHE2W121MP060***
		0.15	2212	885	0.8	25x50	LHE2W121MQ050***
		0.15	2212	885	0.8	30x30	LHE2W121MR030***
	150	0.15	1769	708	0.9	22x70	LHE2W151MP070***
		0.15	1769	708	0.9	25x60	LHE2W151MQ060***
	180	0.15	1474	590	1.1	22x80	LHE2W181MP080***
		0.15	1474	590	1.1	25x60	LHE2W181MQ060***
		0.15	1474	590	1.1	30x50	LHE2W181MR050***
	220	0.15	1206	483	1.2	22x80	LHE2W221MP080***
		0.15	1206	483	1.2	25x70	LHE2W221MQ070***
		0.15	1206	483	1.2	30x50	LHE2W221MR050***
	270	0.15	983	393	1.3	25x70	LHE2W271MQ070***
		0.15	983	393	1.3	30x50	LHE2W271MR050***
		0.15	983	393	1.4	35x40	LHE2W271MS040***
	330	0.15	804	322	1.5	30x60	LHE2W331MR060***
	390	0.15	680	272	1.7	30x70	LHE2W391MR070***
		0.15	680	272	1.7	35x60	LHE2W391MS060***
		0.15	680	272	1.7	35x65	LHE2W391MS065***
	470	0.15	565	226	2.0	35x60	LHE2W471MS060***
		0.15	565	226	2.0	35x70	LHE2W471MS070***
		0.15	565	226	2.0	35x75	LHE2W471MS075***
	560	0.15	474	190	2.2	35x80	LHE2W561MS080***
	680	0.15	390	156	2.6	35x80	LHE2W681MS080***
		0.15	390	156	2.6	35x90	LHE2W681MS090***
	820	0.15	324	129	3.0	35x90	LHE2W821MS090***
	1000	0.15	265	106	3.4	35x90	LHE2W102MS090***
		0.15	265	106	3.4	40x80	LHE2W102MB080***
	1200	0.15	221	88	3.7	35x110	LHE2W122MS110***
		0.15	221	88	3.7	40x90	LHE2W122MB090***

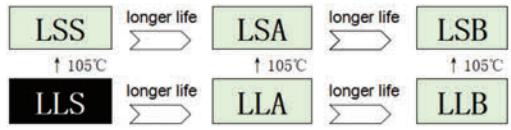
WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	100	0.15	2654	1062	0.8	30x40	LHE2H101MR040***
	120	0.15	2212	885	0.9	30x40	LHE2H121MR040***
		0.15	2212	885	0.9	35x35	LHE2H121MS035***
	150	0.15	2212	708	1.0	30x50	LHE2H151MR050***
	180	0.15	1474	590	1.2	30x60	LHE2H181MR060***
	220	0.15	1206	483	1	25x80	LHE2H221MQ080***
		0.15	1206	483	1.3	30x60	LHE2H221MR060***
		0.15	1206	483	1.2	35x50	LHE2H221MS050***
	270	0.15	983	393	1.5	30x70	LHE2H271MR070***
		0.15	983	393	1.5	35x60	LHE2H271MS060***
	330	0.15	804	322	1.6	35x60	LHE2H331MS060***
	390	0.15	680	272	1.8	35x70	LHE2H391MS070***
	470	0.15	565	226	2.0	35x70	LHE2H471MS070***
		0.15	565	226	2.0	35x80	LHE2H471MS080***
	560	0.15	474	190	2.2	35x80	LHE2H561MS080***
		0.15	474	190	2.2	40x60	LHE2H561MB060***
	680	0.15	390	156	2.4	35x80	LHE2H681MS080***
		0.15	390	156	2.4	40x70	LHE2H681MB070***
	820	0.15	324	129	2.6	35x100	LHE2H821MS100***
		0.15	324	129	2.6	40x80	LHE2H821MB080***
	1000	0.15	265	106	2.8	40x100	LHE2H102MB100***
		0.15	265	106	2.8	45x80	LHE2H102MV080***
	1200	0.15	128	88	3.2	45x90	LHE2H122MV090***
	1500	0.15	128	68	3.6	45x110	LHE2H152MV110***
550 2Y (600)	180	0.15	2108	881	0.8	35x40	LHE2Y181MS040***
	220	0.15	1750	698	1.1	35x50	LHE2Y221MS050***
	270	0.15	1229	590	1.3	35x60	LHE2Y271MS060***
	330	0.15	1005	483	1.4	35x70	LHE2Y331MS070***
	390	0.15	851	408	1.6	35x70	LHE2Y391MS070***
	470	0.15	706	339	1.8	35x80	LHE2Y471MS080***
		0.15	706	339	1.8	40x70	LHE2Y471MB070***
	560	0.15	592	284	2.0	35x100	LHE2Y561MS100***
		0.15	592	284	2.0	40x80	LHE2Y561MB080***
	680	0.15	488	234	2.3	40x90	LHE2Y681MB090***
		0.15	488	234	2.3	45x80	LHE2Y681MV080***
	820	0.15	320	189	2.6	40x100	LHE2Y821MB100***
		0.15	320	189	2.6	45x90	LHE2Y821MV090***
	1000	0.15	280	161	2.9	40x110	LHE2Y102MB110***
		0.15	280	161	2..9	45x100	LHE2Y102MV100***

*** Indicates terminal type, length, and sleeve color.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LLS series 85℃ 2000 hours





- **Rohs requirements.**
- **85℃ 2000 hours,miniaturization series.**
- **Used for power supplies,servo, inverter, and other industrial products.**

■ Product description

Item	Characteristic							
Operating temperature range	-40℃ ~ +85℃				-25℃ ~ +85℃			
Rated voltage(WV/V)	10V ~ 450V				460V ~ 500V			
Capacitance(CAP/C)	68 ~ 4700μFμF							
Tolerance(CAP/C)	±20% (25℃, 120Hz)							
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)							
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	10	16	25	35	50	63 ~ 100	160 ~ 500
	DF	0.80	0.60	0.50	0.40	0.30	0.20	0.15
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)		10	16 ~ 35	50 ~ 100	160 ~ 200	250 ~ 450	460 ~ 500
	Z(-25℃/Z(+25℃)		5	4	3		4	
	Z(-40℃/Z(+25℃)		18	15	10	6	8	0
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6							
	C(-25℃/C(+25℃)≥0.7							

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	4000h	>60000h	2000h	3000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

■ Ripple current correction factor

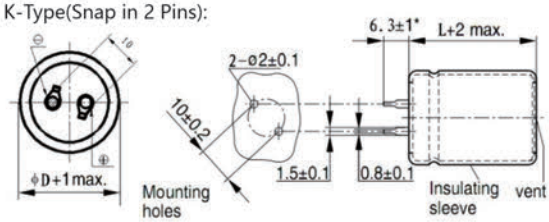
Temp.℃ / UR(V)	40	55	70	85
<160	2.1	1.8	1.5	1.0
≥160	1.7	1.5	1.3	1.0

Freq. / UR(V)	50/60Hz	120Hz	1KHz	10KHz	≥50KHz
≤50	0.88	1.00	1.15	1.15	1.15
63-100	0.80	1.00	1.30	1.45	1.50
≥160	0.80	1.00	1.30	1.40	1.42

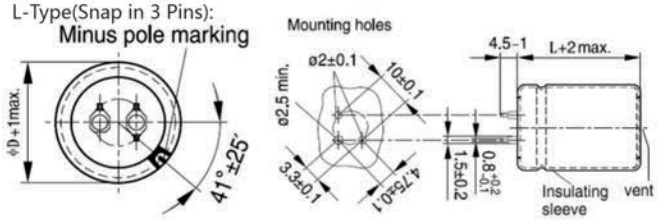
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

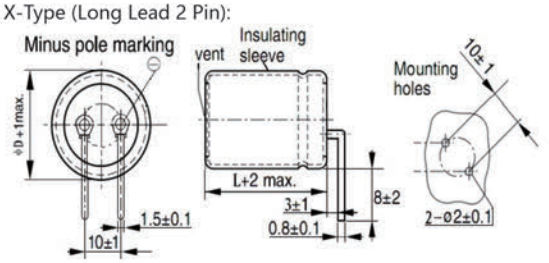
K-Type(Snap in 2 Pins):



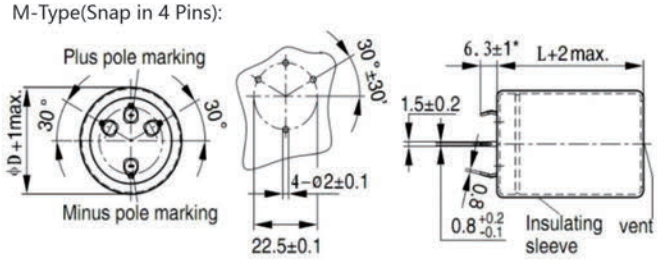
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LLS series 85℃ 2000 hours,miniaturization snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
10 1A (13)	10000	0.80	106	74	2.5	22x25	LLS1A103MP025***
	12000	0.80	89	62	2.7	22x25	LLS1A123MP025***
	15000	0.80	71	50	3.2	22x30	LLS1A153MP030***
		0.80	71	50	3.1	25x25	LLS1A153MQ025***
	18000	0.80	59	41	3.6	22x35	LLS1A183MP035***
		0.80	59	41	3.6	25x30	LLS1A183MQ030***
	22000	0.80	48	34	4.0	22x40	LLS1A223MP040***
		0.80	48	34	4.1	25x35	LLS1A223MQ035***
		0.80	48	34	4.1	30x25	LLS1A223MR025***
16 1C (20)	8200	0.60	97	68	2.2	22x25	LLS1C822MP025***
	10000	0.60	80	56	2.6	22x30	LLS1C103MP030***
		0.60	80	56	2.6	25x25	LLS1C103MQ025***
	12000	0.60	66	46	2.9	22x35	LLS1C123MP035***
	15000	0.60	53	37	3.3	22x40	LLS1C153MP040***
		0.60	53	37	3.3	25x30	LLS1C153MQ030***
		0.60	53	37	3.4	30x25	LLS1C153MR025***
	18000	0.60	44	31	3.8	22x45	LLS1C183MP045***
		0.60	44	31	3.7	25x35	LLS1C183MQ035***
	22000	0.60	36	25	4.2	22x50	LLS1C223MP050***
		0.60	36	25	4.2	25x40	LLS1C223MQ040***
		0.60	36	25	4.2	30x30	LLS1C223MR030***
		0.60	36	25	4.4	35x25	LLS1C223MS025***
25 1E (32)	5600	0.50	119	83	2.0	22x25	LLS1E562MP025***
	6800	0.50	98	68	2.3	22x30	LLS1E682MP030***
		0.50	98	68	2.3	25x25	LLS1E682MQ025***
	8200	0.50	81	57	2.6	22x35	LLS1E822MP035***
	10000	0.50	66	46	2.9	22x40	LLS1E103MP040***
		0.50	66	46	2.8	25x30	LLS1E103MQ030***
		0.50	66	46	3.0	30x25	LLS1E103MR025***
	12000	0.50	55	39	3.3	22x45	LLS1E123MP045***
		0.50	55	39	3.2	25x35	LLS1E123MQ035***
		0.50	55	39	3.4	30x30	LLS1E123MR030***
	15000	0.50	44	31	3.7	25x40	LLS1E153MQ040***
		0.50	44	31	3.9	35x25	LLS1E153MS025***
	18000	0.50	37	26	4.3	25x50	LLS1E183MQ050***
		0.50	37	26	4.2	30x35	LLS1E183MR035***
		0.50	37	26	4.4	35x30	LLS1E183MS030***
	22000	0.50	30	21	4.8	30x40	LLS1E223MR040***
	22000	0.50	30	21	5.0	35x35	LLS1E223MS035***
35 IV (44)	3300	0.40	161	113	1.8	22x25	LLSIV332MP025***
	3900	0.40	136	95	2.1	22x30	LLSIV332MP030***
	4700	0.40	113	79	2.2	25x25	LLSIV472MQ025***
	5600	0.40	95	66	2.3	22x35	LLSIV562MP035***
		0.40	95	66	2.3	25x30	LLSIV562MQ030***
	6800	0.40	78	55	2.6	35x25	LLSIV682MS025***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
35 1V (44)	6800	0.40	78	55	2.9	22x40	LLS1V682MP040***
		0.40	78	55	2.6	25x35	LLS1V682MQ035***
		0.40	78	55	2.7	30x25	LLS1V682MR025***
	8200	0.40	65	45	2.8	22x50	LLS1V822MP050***
		0.40	65	45	2.8	25x40	LLS1V822MQ040***
		0.40	65	45	2.8	30x30	LLS1V822MR030***
		0.40	65	45	2.9	35x25	LLS1V822MS025***
	10000	0.40	53	37	3.1	25x45	LLS1V103MQ045***
		0.40	53	37	3.2	30x35	LLS1V103MR035***
	12000	0.40	44	31	3.5	25x50	LLS1V123MQ050***
		0.40	44	31	3.5	30x40	LLS1V123MR040***
		0.40	44	31	3.6	35x30	LLS1V123MS030***
	15000	0.40	35	25	4.1	30x45	LLS1V153MR045***
		0.40	35	25	4.1	35x35	LLS1V153MS035***
	18000	0.40	30	21	4.6	30x50	LLS1V183MR050***
		0.40	30	21	4.7	35x40	LLS1V183MS040***
	22000	0.40	24	17	5.3	35x45	LLS1V223MS045***
50 1H (63)	2200	0.30	181	127	1.7	22x25	LLS1H222MP025***
	2700	0.30	147	103	1.9	22x30	LLS1H272MP030***
		0.30	147	103	1.9	25x25	LLS1H272MQ025***
	3300	0.30	121	85	2.0	22x30	LLS1H332MP030***
	3900	0.30	102	72	2.1	22x35	LLS1H392MP035***
		0.30	102	72	2.1	25x30	LLS1H392MQ030***
		0.30	102	72	2.4	30x25	LLS1H392MR025***
	4700	0.30	85	59	2.4	22x40	LLS1H472MP040***
		0.30	85	59	2.4	25x35	LLS1H472MQ035***
	5600	0.30	71	50	2.5	22x50	LLS1H562MP050***
		0.30	71	50	2.5	25x40	LLS1H562MQ040***
		0.30	71	50	2.5	30x30	LLS1H562MR030***
		0.30	71	50	2.6	35x25	LLS1H562MS025***
	6800	0.30	59	41	2.8	25x45	LLS1H682MQ045***
		0.30	59	41	2.8	30x35	LLS1H682MR035***
	8200	0.30	49	34	3.2	25x50	LLS1H822MQ050***
		0.30	49	34	3.0	30x40	LLS1H822MR040***
		0.30	49	34	3.0	35x30	LLS1H822MS030***
	10000	0.30	40	28	3.4	30x45	LLS1H103MR045***
		0.30	40	28	3.4	35x35	LLS1H103MS035***
	12000	0.30	33	23	3.8	30x50	LLS1H123MR050***
		0.30	33	23	3.8	35x40	LLS1H123MS040***
	15000	0.30	27	19	4.5	35x50	LLS1H153MS050***
	18000	0.30	23	16	5.3	35x50	LLS1H183MS050***
	22000	0.30	21	14	5.9	35x60	LLS1H223MS060***
	27000	0.30	18	12	6.5	35x70	LLS1H273MS070***
	33000	0.30	16	10	7.1	35x80	LLS1H333MS080***
	47000	0.30	14	9	7.9	35x90	LLS1H473MS090***

■ LLS series 85℃ 2000 hours,miniaturization snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
63 1J (79)	1500	0.20	177	124	1.6	22x25	LLS1J152MP025***
	1800	0.20	147	103	1.8	22x25	LLS1J182MP025***
	22000	0.20	121	84	2.0	22x30	LLS1J223MP030***
		0.20	121	84	2.0	25x25	LLS1J223MQ025***
	2700	0.20	98	69	2.2	22x35	LLS1J272MP035***
		0.20	98	69	2.3	25x30	LLS1J272MQ030***
	3300	0.20	80	56	2.3	22x40	LLS1J332MP040***
		0.20	80	56	2.3	25x35	LLS1J332MQ035***
		0.20	80	56	2.3	30x25	LLS1J332MR025***
	3900	0.20	68	48	2.5	22x45	LLS1J392MP045***
		0.20	68	48	2.6	25x40	LLS1J392MQ040***
		0.20	68	48	2.6	30x30	LLS1J392MR030***
		0.20	68	48	2.7	35x25	LLS1J392MS025***
	4700	0.20	57	40	2.9	30x30	LLS1J472MR030***
	5600	0.20	47	33	3.1	25x45	LLS1J562MQ045***
		0.20	47	33	3.2	30x35	LLS1J562MR035***
		0.20	47	33	3.3	35x30	LLS1J562MS030***
	6800	0.20	39	27	3.6	30x40	LLS1J682MR040***
		0.20	39	27	3.7	35x35	LLS1J682MS035***
	8200	0.20	32	23	3.7	30x50	LLS1J822MR050***
		0.20	32	23	3.8	35x40	LLS1J822MS040***
	10000	0.20	27	19	4.3	35x45	LLS1J103MS045***
	12000	0.20	22	16	4.8	35x50	LLS1J123MS050***
80 1K (100)	1000	0.20	265	186	1.3	22x25	LLS1K102MP025***
	1200	0.20	221	155	1.5	22x30	LLS1K122MP030***
	1500	0.20	177	124	1.7	25x25	LLS1K152MQ025***
	1800	0.20	147	103	1.9	22x35	LLS1K182MP035***
		0.20	147	103	1.9	25x30	LLS1K182MQ030***
	2200	0.20	121	84	2.1	22x40	LLS1K222MP040***
		0.20	121	84	2.2	25x35	LLS1K222MQ035***
		0.20	121	84	2.2	30x25	LLS1K222MR025***
	2700	0.20	98	69	2.5	22x50	LLS1K272MP050***
		0.20	98	69	2.5	25x40	LLS1K272MQ040***
		0.20	98	69	2.5	30x30	LLS1K272MR030***
		0.20	98	69	2.5	35x25	LLS1K272MS025***
	3300	0.20	80	56	2.8	25x45	LLS1K332MQ045***
		0.20	80	56	2.8	30x35	LLS1K332MR035***
	3900	0.20	68	48	3.1	25x50	LLS1K392MQ050***
		0.20	68	48	3.2	30x40	LLS1K392MR040***
		0.20	68	48	3.2	35x30	LLS1K392MS030***
	4700	0.20	57	40	3.6	30x45	LLS1K472MR045***
		0.20	57	40	3.6	35x35	LLS1K472MS035***
	5600	0.20	47	33	3.8	30x50	LLS1K562MR050***
		0.20	47	33	3.8	35x40	LLS1K562MS040***
	6800	0.20	39	27	4.1	35x50	LLS1K682MS050***
	8200	0.20	34	23	4.4	35x60	LLS1K822MS060***
	10000	0.20	31	20	4.9	35x70	LLS1K103MS070***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
100 2A (125)	680	0.20	390	273	1.1	22x25	LLS2A681MP025***
	820	0.20	324	227	1.2	22x30	LLS2A821MP030***
	1000	0.20	265	186	1.4	25x25	LLS2A102MQ025***
	1200	0.20	221	155	1.6	22x35	LLS2A122MP035***
		0.20	221	155	1.6	25x30	LLS2A122MQ030***
	1500	0.20	177	124	1.8	22x40	LLS2A152MP040***
		0.20	177	124	1.7	25x35	LLS2A152MQ035***
		0.20	177	124	1.8	30x25	LLS2A152MR025***
	1800	0.20	147	103	2.1	22x50	LLS2A182MP050***
		0.20	147	103	2.0	25x40	LLS2A182MQ040***
		0.20	147	103	2.1	30x30	LLS2A182MR030***
		0.20	147	103	2.2	35x25	LLS2A182MS025***
	2200	0.20	121	84	2.2	25x45	LLS2A222MQ045***
		0.20	121	84	2.3	30x35	LLS2A222MR035***
		0.20	121	84	2.5	35x30	LLS2A222MS030***
	2700	0.20	98	69	2.6	25x50	LLS2A272MQ050***
		0.20	98	69	2.7	30x40	LLS2A272MR040***
	3300	0.20	80	56	3.0	30x45	LLS2A332MR045***
		0.20	80	56	3.1	35x35	LLS2A332MS035***
	3900	0.20	68	48	3.4	30x50	LLS2A392MR050***
		0.20	68	48	3.4	35x40	LLS2A392MS040***
	4700	0.20	57	40	4.0	35x40	LLS2A472MS040***
160 2C (200)	220	0.15	905	663	1.0	22x25	LLS2C221MP025***
	270	0.15	737	516	1.1	22x25	LLS2C271MP025***
	330	0.15	603	422	1.3	22x25	LLS2C331MP025***
	390	0.15	510	357	1.5	22x30	LLS2C391MP030***
		0.15	510	357	1.5	25x25	LLS2C391MQ025***
	470	0.15	424	297	1.7	25x25	LLS2C471MQ025***
	560	0.15	355	249	1.9	22x35	LLS2C561MP035***
		0.15	355	249	1.9	25x30	LLS2C561MQ030***
		0.15	355	249	2.0	30x25	LLS2C561MR025***
	680	0.15	293	205	2.1	22x40	LLS2C681MP040***
		0.15	293	205	2.2	25x35	LLS2C681MQ035***
	820	0.15	243	170	2.5	22x50	LLS2C821MP050***
		0.15	243	170	2.4	25x40	LLS2C821MQ040***
		0.15	243	170	2.5	30x30	LLS2C821MR030***
		0.15	243	170	2.4	35x25	LLS2C821MS025***
	1000	0.15	199	139	2.7	25x45	LLS2C102MQ045***
		0.15	199	139	2.8	30x35	LLS2C102MR035***
		0.15	199	139	2.7	35x30	LLS2C102MS030***
	1200	0.15	166	116	3.1	25x50	LLS2C122MQ050***
		0.15	166	116	3.2	30x40	LLS2C122MR040***
		0.15	166	116	3.0	35x35	LLS2C122MS035***
	1500	0.15	133	93	3.7	30x45	LLS2C152MR045***
		0.15	133	93	3.5	35x40	LLS2C152MS040***
	1800	0.15	111	77	3.9	35x45	LLS2C182MS045***
	2200	0.15	91	63	4.5	35x50	LLS2C222MS050***

■ LLS series 85℃ 2000 hours,miniaturization snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
180 2K (225)	270	0.15	727	516	1.2	22x25	LLS2K271MP025***
	330	0.15	603	422	1.4	22x30	LLS2K331MP030***
	390	0.15	510	357	1.5	25x25	LLS2K391MQ025***
	470	0.15	424	296	1.7	22x35	LLS2K471MP035***
		0.15	424	296	1.7	25x30	LLS2K471MQ030***
		0.15	424	296	1.8	30x25	LLS2K471MR025***
	560	0.15	355	249	1.9	22x40	LLS2K561MP040***
		0.15	355	249	2.0	25x35	LLS2K561MQ035***
	680	0.15	293	205	2.3	22x50	LLS2K681MP050***
		0.15	293	205	2.2	25x40	LLS2K681MQ040***
		0.15	293	205	2.3	30x30	LLS2K681MR030***
		0.15	293	205	2.2	35x25	LLS2K681MS025***
	820	0.15	243	170	2.5	25x45	LLS2K821MQ045***
		0.15	243	170	2.6	30x35	LLS2K821MR035***
		0.15	243	170	2.5	35x30	LLS2K821MS030***
	1000	0.15	199	139	2.9	25x50	LLS2K102MQ050***
		0.15	199	139	2.9	30x40	LLS2K102MR040***
	1200	0.15	166	116	3.3	30x45	LLS2K122MR045***
		0.15	166	116	3.1	35x35	LLS2K122MS035***
	1500	0.15	133	93	3.6	35x45	LLS2K152MS045***
	1800	0.15	111	77	4.1	35x50	LLS2K182MS050***
200 2D (250)	220	0.15	905	633	1.1	22x25	LLS2D221MP025***
	270	0.15	737	516	1.2	22x25	LLS2D271MP025***
	330	0.15	603	422	1.4	22x30	LLS2D331MP030***
		0.15	603	422	1.4	25x25	LLS2D331MQ025***
	390	0.15	510	357	1.6	22x35	LLS2D391MP035***
		0.15	510	357	1.6	25x30	LLS2D391MQ030***
	470	0.15	424	296	1.8	22x40	LLS2D471MP040***
		0.15	424	296	1.9	30x25	LLS2D471MR025***
	560	0.15	355	249	2.0	22x45	LLS2D561MP045***
		0.15	355	249	2.0	25x35	LLS2D561MQ035***
		0.15	355	249	2.1	30x30	LLS2D561MR030***
		0.15	355	249	2.0	35x25	LLS2D561MS025***
	680	0.15	293	205	2.3	25x40	LLS2D681MQ040***
		0.15	293	205	2.4	30x35	LLS2D681MR035***
	820	0.15	243	170	2.6	25x50	LLS2D821MQ050***
		0.15	243	170	2.7	30x40	LLS2D821MR040***
		0.15	243	170	2.5	35x30	LLS2D821MS030***
	1000	0.15	199	139	3.1	30x45	LLS2D102MR045***
		0.15	199	139	2.8	35x35	LLS2D102MS035***
	1200	0.15	166	116	3.4	30x50	LLS2D122MR050***
		0.15	166	116	3.2	35x40	LLS2D122MS040***
	1500	0.15	133	93	3.8	35x50	LLS2D152MS050***
	1800	0.15	118	81	4.2	35x50	LLS2D182MS050***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	180	0.15	1106	774	0.9	22x25	LLS2E181MP025***
	220	0.15	905	633	1.1	22x30	LLS2E221MP030***
		0.15	905	633	1.1	25x25	LLS2E221MQ025***
	270	0.15	737	516	1.2	22x35	LLS2E271MP035***
	330	0.15	603	422	1.4	22x40	LLS2E331MP040***
		0.15	603	422	1.4	25x30	LLS2E331MQ030***
		0.15	603	422	1.5	30x25	LLS2E331MR025***
	390	0.15	510	357	1.6	22x45	LLS2E391MP045***
		0.15	510	357	1.6	25x35	LLS2E391MQ035***
	470	0.15	424	296	1.8	22x50	LLS2E471MP050***
		0.15	424	296	1.8	25x40	LLS2E471MQ040***
		0.15	424	296	1.8	30x30	LLS2E471MR030***
		0.15	424	296	1.9	35x25	LLS2E471MS025***
	560	0.15	355	249	2.0	25x45	LLS2E561MQ045***
		0.15	355	249	2.0	30x35	LLS2E561MR035***
	680	0.15	293	205	2.3	30x40	LLS2E681MR040***
		0.15	293	205	2.4	35x30	LLS2E681MS030***
	820	0.15	243	170	2.6	30x45	LLS2E821MR045***
		0.15	243	170	2.6	35x35	LLS2E821MS035***
	1000	0.15	199	139	3.0	35x40	LLS2E102MS040***
	1200	0.15	166	116	3.4	35x45	LLS2E122MS045***
315 2F (365)	100	0.15	1990	1390	0.6	22x25	LLS2F101MP025***
	120	0.15	1659	1160	0.7	22x30	LLS2F121MP030***
	150	0.15	1327	929	0.8	22x30	LLS2F151MP030***
		0.15	1327	929	0.8	25x25	LLS2F151MQ025***
	180	0.15	1106	774	0.9	22x35	LLS2F181MP035***
		0.15	1106	774	0.9	25x30	LLS2F181MQ030***
	220	0.15	905	633	1.1	22x40	LLS2F221MP040***
		0.15	905	633	1.1	25x35	LLS2F221MQ035***
		0.15	905	633	1.1	30x25	LLS2F221MR025***
	270	0.15	737	516	1.2	22x45	LLS2F271MP045***
		0.15	737	516	1.3	25x40	LLS2F271MQ040***
		0.15	737	516	1.3	30x30	LLS2F271MR030***
		0.15	737	516	1.3	35x25	LLS2F271MS025***
	330	0.15	603	422	1.4	25x45	LLS2F331MQ045***
		0.15	603	422	1.4	30x35	LLS2F331MR035***
	390	0.15	510	357	1.6	25x50	LLS2F391MQ050***
		0.15	510	357	1.6	30x40	LLS2F391MR040***
		0.15	510	357	1.6	35x30	LLS2F391MS030***
	470	0.15	424	296	1.8	30x45	LLS2F471MR045***
		0.15	424	296	1.8	35x35	LLS2F471MS035***
	560	0.15	355	249	2.0	30x50	LLS2F561MR050***
		0.15	355	249	2.0	35x40	LLS2F561MS040***
	680	0.15	293	205	2.3	35x45	LLS2F681MS045***

■ LLS series 85℃ 2000 hours,miniaturization snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	82	0.15	2427	1699	0.6	22x25	LLS2V820MP025***
	100	0.15	1990	1393	0.7	22x25	LLS2V101MP025***
	120	0.15	1659	1161	0.8	22x30	LLS2V121MP030***
		0.15	1659	1161	0.8	25x25	LLS2V121MQ025***
	150	0.15	1327	929	0.9	22x35	LLS2V151MP035***
		0.15	1327	929	0.9	25x30	LLS2V151MQ030***
	180	0.15	1106	774	1.1	22x40	LLS2V181MP040***
		0.15	1106	774	1.1	30x25	LLS2V181MR025***
	220	0.15	905	633	1.2	22x45	LLS2V221MP045***
		0.15	905	633	1.2	25x35	LLS2V221MQ035***
		0.15	905	633	1.2	30x30	LLS2V221MR030***
		0.15	905	633	1.3	35x25	LLS2V221MS025***
	270	0.15	737	516	1.4	25x45	LLS2V271MQ045***
		0.15	737	516	1.4	30x35	LLS2V271MR035***
	330	0.15	603	422	1.6	25x50	LLS2V331MQ050***
		0.15	603	422	1.6	35x30	LLS2V331MS030***
	390	0.15	510	357	1.7	30x40	LLS2V391MR040***
		0.15	510	357	1.8	35x35	LLS2V391MS035***
	470	0.15	424	296	2.0	30x45	LLS2V471MR045***
		0.15	424	296	2.0	35x40	LLS2V471MS040***
	560	0.15	355	249	2.3	35x45	LLS2V561MS045***
	680	0.15	293	205	2.6	35x50	LLS2V681MS050***
400 2G (450)	68	0.15	2927	2049	0.6	22x25	LLS2G680MP025***
	82	0.15	2427	1699	0.6	22x25	LLS2G820MP025***
	100	0.15	1990	1393	0.7	22x25	LLS2G101MP025***
		0.15	1990	1393	0.7	25x25	LLS2G101MQ025***
	120	0.15	1659	1161	0.8	22x30	LLS2G121MP030***
	150	0.15	1327	929	0.9	22x35	LLS2G151MP035***
		0.15	1327	929	0.9	25x25	LLS2G151MQ025***
		0.15	1327	929	1.0	30x25	LLS2G151MR025***
	180	0.15	1106	774	1.0	22x40	LLS2G181MP040***
		0.15	1106	774	1.0	25x30	LLS2G181MQ030***
		0.15	1106	774	1.1	30x25	LLS2G181MR025***
		0.15	1106	774	1.1	35x20	LLS2G181MS020***
	220	0.15	905	633	1.1	22x45	LLS2G221MP045***
		0.15	905	633	1.2	25x35	LLS2G221MQ035***
		0.15	905	633	1.2	30x30	LLS2G221MR030***
	270	0.15	737	516	1.3	25x40	LLS2G271MQ040***
		0.15	737	516	1.4	30x35	LLS2G271MR035***
		0.15	737	516	1.6	35x25	LLS2G271MS025***
	330	0.15	603	422	1.6	30x35	LLS2G331MR035***
		0.15	603	422	1.7	35x25	LLS2G331MS025***
	390	0.15	510	357	1.8	30x35	LLS2G391MR035***
		0.15	510	357	1.8	35x30	LLS2G391MS030***
	470	0.15	424	296	2.1	35x35	LLS2G471MS035***
	560	0.15	355	249	2.3	35x35	LLS2G561MS035***
	680	0.15	293	235	2.7	35x45	LLS2G681MS045***
	820	0.15	242	194	3.1	35x50	LLS2G821MS050***
		0.15	242	194	3.1	40x40	LLS2G821MB040***

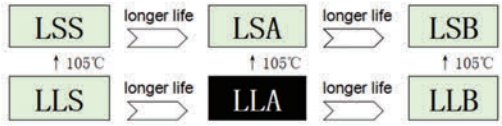
WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (450)	68	0.15	2972	1522	0.6	22x25	LLS2I680MP025***
	82	0.15	2427	1262	0.6	22x30	LLS2I820MP030***
	100	0.15	1990	1035	0.7	22x35	LLS2I101MP035***
	120	0.15	1659	863	0.8	22x40	LLS2I121MP040***
		0.15	1659	863	0.8	25x30	LLS2I121MQ030***
	150	0.15	1327	690	0.9	22x45	LLS2I151MP045***
		0.15	1327	690	0.9	25x35	LLS2I151MQ035***
	180	0.15	1106	575	1.1	25x40	LLS2I181MQ040***
		0.15	1106	575	1.1	30x30	LLS2I181MR030***
	220	0.15	905	471	1.2	25x45	LLS2I221MQ045***
		0.15	905	471	1.3	30x35	LLS2I221MR035***
	270	0.15	737	383	1.3	25x50	LLS2I271MQ050***
		0.15	737	383	1.4	30x40	LLS2I271MR040***
	330	0.15	603	314	1.6	30x45	LLS2I331MR045***
		0.15	603	314	1.6	35x35	LLS2I331MS035***
	390	0.15	510	265	1.9	30x50	LLS2I391MR050***
	470	0.15	424	220	2.2	35x45	LLS2I471MS045***
	560	0.15	355	185	2.4	35x50	LLS2I561MS050***
	680	0.15	293	153	2.8	35x55	LLS2I681MS055***
	820	0.15	242	126	3.2	35x60	LLS2I821MS060***
450 2W (500)	68	0.15	2927	2049	0.6	22x25	LLS2W680MP025***
	82	0.15	2427	1699	0.6	22x30	LLS2W820MP030***
	100	0.15	1990	1393	0.7	22x30	LLS2W101MP030***
		0.15	1990	1393	0.7	25x25	LLS2W101MQ025***
	120	0.15	1659	1161	0.8	22x35	LLS2W121MP035***
		0.15	1659	1161	0.8	25x30	LLS2W121MQ030***
	150	0.15	1327	929	1.0	22x40	LLS2W151MP040***
		0.15	1327	929	1.0	25x30	LLS2W151MQ030***
		0.15	1327	929	1.0	30x25	LLS2W151MR025***
	180	0.15	1106	774	1.1	25x35	LLS2W181MQ035***
		0.15	1106	774	1.1	30x30	LLS2W181MR030***
		0.15	1106	774	1.2	35x25	LLS2W181MS025***
	220	0.15	905	633	1.2	25x40	LLS2W221MQ040***
		0.15	905	633	1.3	30x30	LLS2W221MR030***
		0.15	905	633	1.3	35x25	LLS2W221MS025***
	270	0.15	737	516	1.4	30x35	LLS2W271MR035***
		0.15	737	516	1.5	35x30	LLS2W271MS030***
	330	0.15	603	423	1.7	30x40	LLS2W331MR040***
	390	0.15	510	357	1.9	35x35	LLS2W391MS035***
	470	0.15	424	296	2.2	35x40	LLS2W471MS040***
	560	0.15	356	285	2.4	35x50	LLS2W561MS050***
	680	0.15	293	235	2.8	35x60	LLS2W681MS060***
		0.15	293	235	2.8	40x50	LLS2W681MB050***
	820	0.15	242	194	3.2	35x60	LLS2W821MS060***
		0.15	242	194	3.2	40x50	LLS2W821MB050***
	1000	0.15	199	139	3.6	35x70	LLS2W102MS070***
		0.15	199	139	3.6	40x60	LLS2W102MB060***
	1200	0.15	168	108	3.9	35x90	LLS2W122MS090***
		0.15	168	108	3.9	40x70	LLS2W122MB070***

■ LLS series 85℃ 2000 hours,miniaturization snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	100	0.15	1990	1592	0.9	25x30	LLS2H101MQ030***
		0.15	1990	1592	0.9	30x25	LLS2H101MR025***
	120	0.15	1658	1327	1.0	25x35	LLS2H121MQ035***
		0.15	1658	1327	1.0	30x30	LLS2H121MR030***
		0.15	1658	1327	1.0	35x25	LLS2H121MS025***
	150	0.15	1327	1062	1.2	25x40	LLS2H151MQ040***
		0.15	1327	1062	1.2	30x35	LLS2H151MR035***
	180	0.15	1106	885	1.4	30x40	LLS2H181MR040***
		0.15	1106	885	1.3	35x30	LLS2H181MS030***
	220	0.15	905	724	1.6	30x45	LLS2H221MR045***
		0.15	905	724	1.5	35x35	LLS2H221MS035***
	270	0.15	737	590	1.8	30x50	LLS2H271MR050***
		0.15	737	590	1.7	35x40	LLS2H271MS040***
	330	0.15	603	483	2.0	30x50	LLS2H331MR050***
		0.15	603	483	1.9	35x45	LLS2H331MS045***
	390	0.15	511	409	2.3	30x70	LLS2H391MR070***
		0.15	511	409	2.3	35x50	LLS2H391MS050***
	470	0.15	424	339	2.5	30x80	LLS2H471MR080***
		0.15	424	339	2.5	35x60	LLS2H471MS060***
	560	0.15	356	285	2.8	35x65	LLS2H561MS065***
		0.15	356	285	2.8	40x50	LLS2H561MB050***
	680	0.15	293	235	3.2	35x70	LLS2H681MS070***
		0.15	293	235	3.2	40x60	LLS2H681MB060***
	820	0.15	260	190	4.1	35x80	LLS2H821MS080***
		0.15	260	190	4.1	40x70	LLS2H821MB070***
	1000	0.15	220	160	4.5	35x100	LLS2H102MS100***
		0.15	220	160	4.5	40x80	LLS2H102MB080***

*** Indicates terminal type, length, and sleeve color.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LLA series 85℃ 3000 hours





- **Rohs requirements.**
- **85℃ 3000 hours,miniaturization series.**
- **Used for power supplies and other industrial products.**

■ Product description

Item	Characteristic							
Operating temperature range	-40℃ ~ +85℃				-25℃ ~ +85℃			
Rated voltage(WV/V)	10V ~ 450V				460V ~ 500V			
Capacitance(CAP/C)	68 ~ 4700μF							
Tolerance(CAP/C)	±20% (25℃, 120Hz)							
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)							
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	10	16	25	35	50	63 ~ 100	160 ~ 500
	DF	0.80	0.60	0.50	0.40	0.30	0.20	0.15
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)		10	16 ~ 35	50 ~ 100	160 ~ 200	250 ~ 400	420 ~ 500
	Z(-25℃/Z(+25℃)		5	4	3		4	
	Z(-40℃/Z(+25℃)		18	15	10	6	8	0
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6							
	C(-25℃/C(+25℃)≥0.7							

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	4000h	>80000h	3000h	4000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

■ Ripple current correction factor

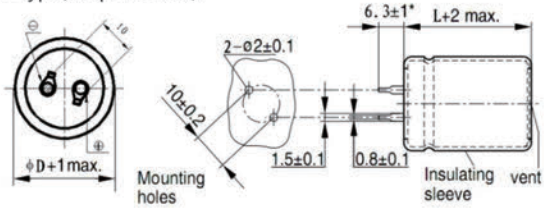
Temp.℃ / UR(V)	40	55	70	85
<160	2.1	1.8	1.5	1.0
≥160	1.7	1.5	1.3	1.0

Freq. / UR(V)	50/60Hz	120Hz	1KHz	10KHz	≥50KHz
≤50	0.88	1.00	1.15	1.15	1.15
63-100	0.80	1.00	1.30	1.45	1.50
≥160	0.80	1.00	1.30	1.40	1.42

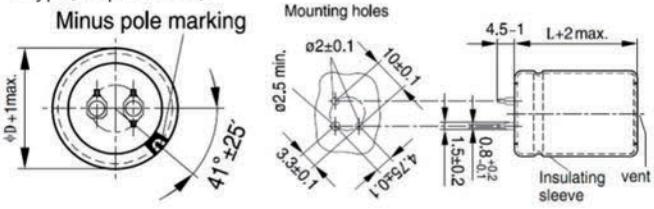
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

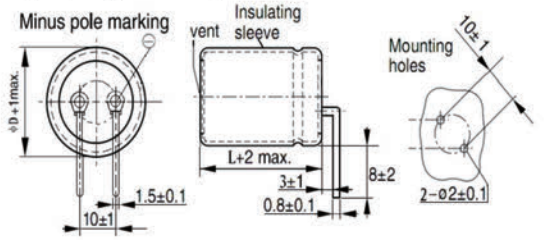
K-Type(Snap in 2 Pins):



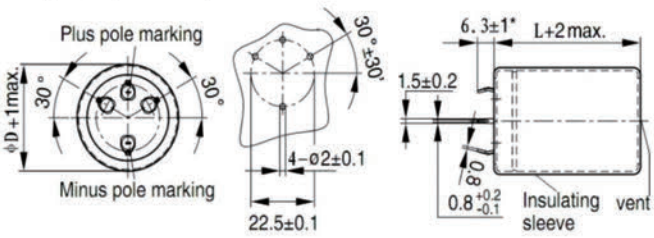
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LLA series 85℃ 3000 hours,miniaturization snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
10 1A (13)	10000	0.80	106	74	2.5	22x25	LLA1A103MP025***
	12000	0.80	89	62	2.7	22x25	LLA1A123MP025***
	15000	0.80	71	50	3.2	22x30	LLA1A153MP030***
		0.80	71	50	3.1	25x25	LLA1A153MQ025***
	18000	0.80	59	41	3.6	22x35	LLA1A183MP035***
		0.80	59	41	3.6	25x30	LLA1A183MQ030***
	22000	0.80	48	34	4.0	22x40	LLA1A223MP040***
		0.80	48	34	4.1	25x35	LLA1A223MQ035***
		0.80	48	34	4.1	30x25	LLA1A223MR025***
16 1C (20)	8200	0.60	97	68	2.2	22x25	LLA1C822MP025***
	10000	0.60	80	56	2.6	22x30	LLA1C103MP030***
		0.60	80	56	2.6	25x25	LLA1C103MQ025***
	12000	0.60	66	46	2.9	22x35	LLA1C123MP035***
	15000	0.60	53	37	3.3	22x40	LLA1C153MP040***
		0.60	53	37	3.3	25x30	LLA1C153MQ030***
		0.60	53	37	3.4	30x25	LLA1C153MR025***
	18000	0.60	44	31	3.8	22x45	LLA1C183MP045***
		0.60	44	31	3.7	25x35	LLA1C183MQ035***
	22000	0.60	36	25	4.2	22x50	LLA1C223MP050***
		0.60	36	25	4.2	25x40	LLA1C223MQ040***
		0.60	36	25	4.2	30x30	LLA1C223MR030***
		0.60	36	25	4.4	35x25	LLA1C223MS025***
25 1E (32)	5600	0.50	119	83	2.0	22x25	LLA1E562MP025***
	6800	0.50	98	68	2.3	22x30	LLA1E682MP030***
		0.50	98	68	2.3	25x25	LLA1E682MQ025***
	8200	0.50	81	57	2.6	22x35	LLA1E822MP035***
	10000	0.50	66	46	2.9	22x40	LLA1E103MP040***
		0.50	66	46	2.8	25x30	LLA1E103MQ030***
		0.50	66	46	3.0	30x25	LLA1E103MR025***
	12000	0.50	55	39	3.3	22x45	LLA1E123MP045***
		0.50	55	39	3.2	25x35	LLA1E123MQ035***
		0.50	55	39	3.4	30x30	LLA1E123MR030***
	15000	0.50	44	31	3.7	25x40	LLA1E153MQ040***
		0.50	44	31	3.9	35x25	LLA1E153MS025***
	18000	0.50	37	26	4.3	25x50	LLA1E183MQ050***
		0.50	37	26	4.2	30x35	LLA1E183MR035***
		0.50	37	26	4.4	35x30	LLA1E183MS030***
	22000	0.50	30	21	4.8	30x40	LLA1E223MR040***
	22000	0.50	30	21	5.0	35x35	LLA1E223MS035***
35 1V (44)	3300	0.40	161	113	1.8	22x25	LLA1V332MP025***
	3900	0.40	136	95	2.1	22x30	LLA1V332MP030***
	4700	0.40	113	79	2.2	25x25	LLA1V472MQ025***
	5600	0.40	95	66	2.3	22x35	LLA1V562MP035***
		0.40	95	66	2.3	25x30	LLA1V562MQ030***
	6800	0.40	78	55	2.6	35x25	LLA1V682MS025***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
35 1V (44)	6800	0.40	78	55	2.9	22x40	LLA1V682MP040***
		0.40	78	55	2.6	25x35	LLA1V682MQ035***
		0.40	78	55	2.7	30x25	LLA1V682MR025***
	8200	0.40	65	45	2.8	22x50	LLA1V822MP050***
		0.40	65	45	2.8	25x40	LLA1V822MQ040***
		0.40	65	45	2.8	30x30	LLA1V822MR030***
		0.40	65	45	2.9	35x25	LLA1V822MS025***
	10000	0.40	53	37	3.1	25x45	LLA1V103MQ045***
		0.40	53	37	3.2	30x35	LLA1V103MR035***
	12000	0.40	44	31	3.5	25x50	LLA1V123MQ050***
		0.40	44	31	3.5	30x40	LLA1V123MR040***
		0.40	44	31	3.6	35x30	LLA1V123MS030***
	15000	0.40	35	25	4.1	30x45	LLA1V153MR045***
		0.40	35	25	4.1	35x35	LLA1V153MS035***
	18000	0.40	30	21	4.6	30x50	LLA1V183MR050***
		0.40	30	21	4.7	35x40	LLA1V183MS040***
	22000	0.40	24	17	5.3	35x45	LLA1V223MS045***
50 1H (63)	2200	0.30	181	127	1.7	22x25	LLA1H222MP025***
	2700	0.30	147	103	1.9	22x30	LLA1H272MP030***
		0.30	147	103	1.9	25x25	LLA1H272MQ025***
	3300	0.30	121	85	2.0	22x30	LLA1H332MP030***
	3900	0.30	102	72	2.1	22x35	LLA1H392MP035***
		0.30	102	72	2.1	25x30	LLA1H392MQ030***
		0.30	102	72	2.4	30x25	LLA1H392MR025***
	4700	0.30	85	59	2.4	22x40	LLA1H472MP040***
		0.30	85	59	2.4	25x35	LLA1H472MQ035***
	5600	0.30	71	50	2.5	22x50	LLA1H562MP050***
		0.30	71	50	2.5	25x40	LLA1H562MQ040***
		0.30	71	50	2.5	30x30	LLA1H562MR030***
		0.30	71	50	2.6	35x25	LLA1H562MS025***
	6800	0.30	59	41	2.8	25x45	LLA1H682MQ045***
		0.30	59	41	2.8	30x35	LLA1H682MR035***
	8200	0.30	49	34	3.2	25x50	LLA1H822MQ050***
		0.30	49	34	3.0	30x40	LLA1H822MR040***
		0.30	49	34	3.0	35x30	LLA1H822MS030***
	10000	0.30	40	28	3.4	30x45	LLA1H103MR045***
		0.30	40	28	3.4	35x35	LLA1H103MS035***
	12000	0.30	33	23	3.8	30x50	LLA1H123MR050***
		0.30	33	23	3.8	35x40	LLA1H123MS040***
	15000	0.30	27	19	4.5	35x50	LLA1H153MS050***
	18000	0.30	23	16	5.3	35x50	LLA1H183MS050***
	22000	0.30	21	14	5.9	35x60	LLA1H223MS060***
	27000	0.30	18	12	6.5	35x70	LLA1H273MS070***
	33000	0.30	16	10	7.1	35x80	LLA1H333MS080***
	47000	0.30	14	9	7.9	35x90	LLA1H473MS090***

■ LLA series 85℃ 3000 hours,miniaturization snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
63 1J (79)	1500	0.20	177	124	1.6	22x25	LLA1J152MP025***
	1800	0.20	147	103	1.8	22x30	LLA1J182MP030***
	22000	0.20	121	84	2.0	22x30	LLA1J223MP030***
		0.20	121	84	2.0	25x25	LLA1J223MQ025***
	2700	0.20	98	69	2.2	22x35	LLA1J272MP035***
		0.20	98	69	2.3	25x30	LLA1J272MQ030***
	3300	0.20	80	56	2.3	22x40	LLA1J332MP040***
		0.20	80	56	2.3	25x35	LLA1J332MQ035***
		0.20	80	56	2.3	30x25	LLA1J332MR025***
	3900	0.20	68	48	2.5	22x45	LLA1J392MP045***
		0.20	68	48	2.6	25x40	LLA1J392MQ040***
		0.20	68	48	2.6	30x30	LLA1J392MR030***
		0.20	68	48	2.7	35x25	LLA1J392MS025***
	4700	0.20	57	40	2.9	30x30	LLA1J472MR030***
	5600	0.20	47	33	3.1	25x50	LLA1J562MQ050***
		0.20	47	33	3.2	30x35	LLA1J562MR035***
		0.20	47	33	3.3	35x30	LLA1J562MS030***
	6800	0.20	39	27	3.6	30x40	LLA1J682MR040***
		0.20	39	27	3.7	35x35	LLA1J682MS035***
	8200	0.20	32	23	3.7	30x50	LLA1J822MR050***
		0.20	32	23	3.8	35x40	LLA1J822MS040***
	10000	0.20	27	19	4.3	35x45	LLA1J103MS045***
	12000	0.20	22	16	4.8	35x50	LLA1J123MS050***
80 1K (100)	1000	0.20	265	186	1.3	22x25	LLA1K102MP025***
	1200	0.20	221	155	1.5	22x30	LLA1K122MP030***
	1500	0.20	177	124	1.7	25x25	LLA1K152MQ025***
	1800	0.20	147	103	1.9	22x35	LLA1K182MP035***
		0.20	147	103	1.9	25x30	LLA1K182MQ030***
	2200	0.20	121	84	2.1	22x40	LLA1K222MP040***
		0.20	121	84	2.2	25x35	LLA1K222MQ035***
		0.20	121	84	2.2	30x25	LLA1K222MR025***
	2700	0.20	98	69	2.5	22x50	LLA1K272MP050***
		0.20	98	69	2.5	25x40	LLA1K272MQ040***
		0.20	98	69	2.5	30x30	LLA1K272MR030***
		0.20	98	69	2.5	35x25	LLA1K272MS025***
	3300	0.20	80	56	2.8	25x45	LLA1K332MQ045***
		0.20	80	56	2.8	30x35	LLA1K332MR035***
	3900	0.20	68	48	3.1	25x50	LLA1K392MQ050***
		0.20	68	48	3.2	30x40	LLA1K392MR040***
		0.20	68	48	3.2	35x30	LLA1K392MS030***
	4700	0.20	57	40	3.6	30x45	LLA1K472MR045***
		0.20	57	40	3.6	35x35	LLA1K472MS035***
	5600	0.20	47	33	3.8	30x50	LLA1K562MR050***
		0.20	47	33	3.8	35x40	LLA1K562MS040***
	6800	0.20	39	27	4.1	35x50	LLA1K682MS050***
	8200	0.20	34	23	4.4	35x60	LLA1K822MS060***
	10000	0.20	31	20	4.9	35x70	LLA1K103MS070***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
100 2A (125)	680	0.20	390	273	1.1	22x25	LLA2A681MP025***
	820	0.20	324	227	1.2	22x30	LLA2A821MP030***
	1000	0.20	265	186	1.4	25x25	LLA2A102MQ025***
	1200	0.20	221	155	1.6	22x35	LLA2A122MP035***
		0.20	221	155	1.6	25x30	LLA2A122MQ030***
	1500	0.20	177	124	1.8	22x40	LLA2A152MP040***
		0.20	177	124	1.7	25x35	LLA2A152MQ035***
		0.20	177	124	1.8	30x25	LLA2A152MR025***
	1800	0.20	147	103	2.1	22x50	LLA2A182MP050***
		0.20	147	103	2.0	25x40	LLA2A182MQ040***
		0.20	147	103	2.1	30x30	LLA2A182MR030***
		0.20	147	103	2.2	35x25	LLA2A182MS025***
	2200	0.20	121	84	2.2	25x45	LLA2A222MQ045***
		0.20	121	84	2.3	30x35	LLA2A222MR035***
		0.20	121	84	2.5	35x30	LLA2A222MS030***
	2700	0.20	98	69	2.6	25x50	LLA2A272MQ050***
		0.20	98	69	2.7	30x40	LLA2A272MR040***
	3300	0.20	80	56	3.0	30x45	LLA2A332MR045***
		0.20	80	56	3.1	35x35	LLA2A332MS035***
	3900	0.20	68	48	3.4	30x50	LLA2A392MR050***
		0.20	68	48	3.4	35x40	LLA2A392MS040***
	4700	0.20	57	40	4.0	35x40	LLA2A472MS040***
160 2C (200)	220	0.15	905	663	1.0	22x25	LLA2C221MP025***
	270	0.15	737	516	1.1	22x25	LLA2C271MP025***
	330	0.15	603	422	1.3	22x25	LLA2C331MP025***
	390	0.15	510	357	1.5	22x30	LLA2C391MP030***
		0.15	510	357	1.5	25x25	LLA2C391MQ025***
	470	0.15	424	297	1.7	25x25	LLA2C471MQ025***
	560	0.15	355	249	1.9	22x35	LLA2C561MP035***
		0.15	355	249	1.9	25x30	LLA2C561MQ030***
		0.15	355	249	2.0	30x25	LLA2C561MR025***
	680	0.15	293	205	2.1	22x40	LLA2C681MP040***
		0.15	293	205	2.2	25x35	LLA2C681MQ035***
	820	0.15	243	170	2.5	22x50	LLA2C821MP050***
		0.15	243	170	2.4	25x40	LLA2C821MQ040***
		0.15	243	170	2.5	30x30	LLA2C821MR030***
		0.15	243	170	2.4	35x25	LLA2C821MS025***
	1000	0.15	199	139	2.7	25x45	LLA2C102MQ045***
		0.15	199	139	2.8	30x35	LLA2C102MR035***
		0.15	199	139	2.7	35x30	LLA2C102MS030***
	1200	0.15	166	116	3.1	25x50	LLA2C122MQ050***
		0.15	166	116	3.2	30x40	LLA2C122MR040***
		0.15	166	116	3.0	35x35	LLA2C122MS035***
	1500	0.15	133	93	3.7	30x45	LLA2C152MR045***
		0.15	133	93	3.5	35x40	LLA2C152MS040***
	1800	0.15	111	77	3.9	35x45	LLA2C182MS045***
	2200	0.15	91	63	4.5	35x50	LLA2C222MS050***

■ LLA series 85℃ 3000 hours,miniaturization snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
180 2K (225)	270	0.15	727	516	1.2	22x25	LLA2K271MP025***
	330	0.15	603	422	1.4	22x30	LLA2K331MP030***
	390	0.15	510	357	1.5	25x25	LLA2K391MQ025***
	470	0.15	424	296	1.7	22x35	LLA2K471MP035***
		0.15	424	296	1.7	25x30	LLA2K471MQ030***
		0.15	424	296	1.8	30x25	LLA2K471MR025***
	560	0.15	355	249	1.9	22x40	LLA2K561MP040***
		0.15	355	249	2.0	25x35	LLA2K561MQ035***
	680	0.15	293	205	2.3	22x50	LLA2K681MP050***
		0.15	293	205	2.2	25x40	LLA2K681MQ040***
		0.15	293	205	2.3	30x30	LLA2K681MR030***
		0.15	293	205	2.2	35x25	LLA2K681MS025***
	820	0.15	243	170	2.5	25x45	LLA2K821MQ045***
		0.15	243	170	2.6	30x35	LLA2K821MR035***
		0.15	243	170	2.5	35x30	LLA2K821MS030***
	1000	0.15	199	139	2.9	25x50	LLA2K102MQ050***
		0.15	199	139	2.9	30x40	LLA2K102MR040***
	1200	0.15	166	116	3.3	30x45	LLA2K122MR045***
		0.15	166	116	3.1	35x35	LLA2K122MS035***
	1500	0.15	133	93	3.6	35x45	LLA2K152MS045***
	1800	0.15	111	77	4.1	35x50	LLA2K182MS050***
200 2D (250)	220	0.15	905	633	1.1	22x25	LLA2D221MP025***
	270	0.15	737	516	1.2	22x25	LLA2D271MP025***
	330	0.15	603	422	1.4	22x30	LLA2D331MP030***
		0.15	603	422	1.4	25x25	LLA2D331MQ025***
	390	0.15	510	357	1.6	22x35	LLA2D391MP035***
		0.15	510	357	1.6	25x30	LLA2D391MQ030***
	470	0.15	424	296	1.8	22x40	LLA2D471MP040***
		0.15	424	296	1.9	30x25	LLA2D471MR025***
	560	0.15	355	249	2.0	22x45	LLA2D561MP045***
		0.15	355	249	2.0	25x35	LLA2D561MQ035***
		0.15	355	249	2.1	30x30	LLA2D561MR030***
		0.15	355	249	2.0	35x25	LLA2D561MS025***
	680	0.15	293	205	2.3	25x40	LLA2D681MQ040***
		0.15	293	205	2.4	30x35	LLA2D681MR035***
	820	0.15	243	170	2.6	25x50	LLA2D821MQ050***
		0.15	243	170	2.7	30x40	LLA2D821MR040***
		0.15	243	170	2.5	35x30	LLA2D821MS030***
	1000	0.15	199	139	3.1	30x45	LLA2D102MR045***
		0.15	199	139	2.8	35x35	LLA2D102MS035***
	1200	0.15	166	116	3.4	30x50	LLA2D122MR050***
		0.15	166	116	3.2	35x40	LLA2D122MS040***
	1500	0.15	133	93	3.8	35x50	LLA2D152MS050***
	1800	0.15	118	81	4.2	35x50	LLA2D182MS050***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	180	0.15	1106	774	0.9	22x25	LLA2E181MP025***
	220	0.15	905	633	1.1	22x30	LLA2E221MP030***
		0.15	905	633	1.1	25x25	LLA2E221MQ025***
	270	0.15	737	516	1.2	22x35	LLA2E271MP035***
	330	0.15	603	422	1.4	22x40	LLA2E331MP040***
		0.15	603	422	1.4	25x30	LLA2E331MQ030***
		0.15	603	422	1.5	30x25	LLA2E331MR025***
	390	0.15	510	357	1.6	22x45	LLA2E391MP045***
		0.15	510	357	1.6	25x35	LLA2E391MQ035***
	470	0.15	424	296	1.8	22x50	LLA2E471MP050***
		0.15	424	296	1.8	25x40	LLA2E471MQ040***
		0.15	424	296	1.8	30x30	LLA2E471MR030***
		0.15	424	296	1.9	35x25	LLA2E471MS025***
	560	0.15	355	249	2.0	25x45	LLA2E561MQ045***
		0.15	355	249	2.0	30x35	LLA2E561MR035***
	680	0.15	293	205	2.3	30x40	LLA2E681MR040***
		0.15	293	205	2.4	35x30	LLA2E681MS030***
	820	0.15	243	170	2.6	30x45	LLA2E821MR045***
		0.15	243	170	2.6	35x35	LLA2E821MS035***
	1000	0.15	199	139	3.0	35x40	LLA2E102MS040***
	1200	0.15	166	116	3.4	35x45	LLA2E122MS045***
315 2F (365)	100	0.15	1990	1390	0.6	22x25	LLA2F101MP025***
	120	0.15	1659	1160	0.7	22x30	LLA2F121MP030***
	150	0.15	1327	929	0.8	22x30	LLA2F151MP030***
		0.15	1327	929	0.8	25x25	LLA2F151MQ025***
	180	0.15	1106	774	0.9	22x35	LLA2F181MP035***
		0.15	1106	774	0.9	25x30	LLA2F181MQ030***
	220	0.15	905	633	1.1	22x40	LLA2F221MP040***
		0.15	905	633	1.1	25x35	LLA2F221MQ035***
		0.15	905	633	1.1	30x25	LLA2F221MR025***
	270	0.15	737	516	1.2	22x45	LLA2F271MP045***
		0.15	737	516	1.3	25x40	LLA2F271MQ040***
		0.15	737	516	1.3	30x30	LLA2F271MR030***
		0.15	737	516	1.3	35x25	LLA2F271MS025***
	330	0.15	603	422	1.4	25x45	LLA2F331MQ045***
		0.15	603	422	1.4	30x35	LLA2F331MR035***
	390	0.15	510	357	1.6	25x50	LLA2F391MQ050***
		0.15	510	357	1.6	30x40	LLA2F391MR040***
		0.15	510	357	1.6	35x30	LLA2F391MS030***
	470	0.15	424	296	1.8	30x45	LLA2F471MR045***
		0.15	424	296	1.8	35x35	LLA2F471MS035***
	560	0.15	355	249	2.0	30x50	LLA2F561MR050***
		0.15	355	249	2.0	35x40	LLA2F561MS040***
	680	0.15	293	205	2.3	35x45	LLA2F681MS045***

■ LLA series 85℃ 3000 hours,miniaturization snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	82	0.15	2427	1699	0.6	22x25	LLA2V820MP025***
	100	0.15	1990	1393	0.7	22x25	LLA2V101MP025***
	120	0.15	1659	1161	0.8	22x30	LLA2V121MP030***
		0.15	1659	1161	0.8	25x25	LLA2V121MQ025***
	150	0.15	1327	929	0.9	22x35	LLA2V151MP035***
		0.15	1327	929	0.9	25x30	LLA2V151MQ030***
	180	0.15	1106	774	1.1	22x40	LLA2V181MP040***
		0.15	1106	774	1.1	30x25	LLA2V181MR025***
	220	0.15	905	633	1.2	22x45	LLA2V221MP045***
		0.15	905	633	1.2	25x35	LLA2V221MQ035***
		0.15	905	633	1.2	30x30	LLA2V221MR030***
		0.15	905	633	1.3	35x25	LLA2V221MS025***
	270	0.15	737	516	1.4	25x45	LLA2V271MQ045***
		0.15	737	516	1.4	30x35	LLA2V271MR035***
	330	0.15	603	422	1.6	25x50	LLA2V331MQ050***
		0.15	603	422	1.6	35x30	LLA2V331MS030***
	390	0.15	510	357	1.7	30x40	LLA2V391MR040***
		0.15	510	357	1.8	35x35	LLA2V391MS035***
	470	0.15	424	296	2.0	30x45	LLA2V471MR045***
		0.15	424	296	2.0	35x40	LLA2V471MS040***
	560	0.15	355	249	2.3	35x45	LLA2V561MS045***
	680	0.15	293	205	2.6	35x50	LLA2V681MS050***
400 2G (450)	68	0.15	2927	2049	0.6	22x25	LLA2G680MP025***
	82	0.15	2427	1699	0.6	22x25	LLA2G820MP025***
	100	0.15	1990	1393	0.7	22x25	LLA2G101MP025***
		0.15	1990	1393	0.7	25x25	LLA2G101MQ025***
	120	0.15	1659	1161	0.8	22x30	LLA2G121MP030***
	150	0.15	1327	929	0.9	22x35	LLA2G151MP035***
		0.15	1327	929	0.9	25x25	LLA2G151MQ025***
		0.15	1327	929	1.0	30x25	LLA2G151MR025***
	180	0.15	1106	774	1.0	22x40	LLA2G181MP040***
		0.15	1106	774	1.0	25x30	LLA2G181MQ030***
		0.15	1106	774	1.1	30x25	LLA2G181MR025***
		0.15	1106	774	1.1	35x20	LLA2G181MS020***
	220	0.15	905	633	1.1	22x45	LLA2G221MP045***
		0.15	905	633	1.2	25x35	LLA2G221MQ035***
		0.15	905	633	1.2	30x30	LLA2G221MR030***
	270	0.15	737	516	1.3	25x40	LLA2G271MQ040***
		0.15	737	516	1.4	30x35	LLA2G271MR035***
		0.15	737	516	1.6	35x25	LLA2G271MS025***
	330	0.15	603	422	1.6	30x35	LLA2G331MR035***
		0.15	603	422	1.7	35x25	LLA2G331MS025***
	390	0.15	510	357	1.8	30x35	LLA2G391MR035***
		0.15	510	357	1.8	35x30	LLA2G391MS030***
	470	0.15	424	296	2.1	35x35	LLA2G471MS035***
	560	0.15	355	249	2.3	35x35	LLA2G561MS035***
	680	0.15	293	235	2.7	35x45	LLA2G681MS045***
	820	0.15	242	194	3.1	35x50	LLA2G821MS050***
		0.15	242	194	3.1	40x40	LLA2G821MB040***

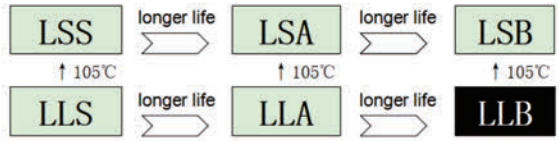
WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (450)	68	0.15	2972	1522	0.6	22x25	LLA2I680MP025***
	82	0.15	2427	1262	0.6	22x30	LLA2I820MP030***
	100	0.15	1990	1035	0.7	22x35	LLA2I101MP035***
	120	0.15	1659	863	0.8	22x40	LLA2I121MP040***
		0.15	1659	863	0.8	25x30	LLA2I121MQ030***
	150	0.15	1327	690	0.9	22x45	LLA2I151MP045***
		0.15	1327	690	0.9	25x35	LLA2I151MQ035***
	180	0.15	1106	575	1.1	25x40	LLA2I181MQ040***
		0.15	1106	575	1.1	30x30	LLA2I181MR030***
	220	0.15	905	471	1.2	25x45	LLA2I221MQ045***
		0.15	905	471	1.3	30x35	LLA2I221MR035***
	270	0.15	737	383	1.3	25x50	LLA2I271MQ050***
		0.15	737	383	1.4	30x40	LLA2I271MR040***
	330	0.15	603	314	1.6	30x45	LLA2I331MR045***
		0.15	603	314	1.6	35x35	LLA2I331MS035***
	390	0.15	510	265	1.9	30x50	LLA2I391MR050***
	470	0.15	424	220	2.2	35x45	LLA2I471MS045***
	560	0.15	355	185	2.4	35x50	LLA2I561MS050***
	680	0.15	293	153	2.8	35x55	LLA2I681MS055***
	820	0.15	242	126	3.2	35x60	LLA2I821MS060***
450 2W (500)	68	0.15	2927	2049	0.6	22x25	LLA2W680MP025***
	82	0.15	2427	1699	0.6	22x30	LLA2W820MP030***
	100	0.15	1990	1393	0.7	22x30	LLA2W101MP030***
		0.15	1990	1393	0.7	25x25	LLA2W101MQ025***
	120	0.15	1659	1161	0.8	22x35	LLA2W121MP035***
		0.15	1659	1161	0.8	25x30	LLA2W121MQ030***
	150	0.15	1327	929	1.0	22x40	LLA2W151MP040***
		0.15	1327	929	1.0	25x30	LLA2W151MQ030***
		0.15	1327	929	1.0	30x25	LLA2W151MR025***
	180	0.15	1106	774	1.1	25x35	LLA2W181MQ035***
		0.15	1106	774	1.1	30x30	LLA2W181MR030***
		0.15	1106	774	1.2	35x25	LLA2W181MS025***
	220	0.15	905	633	1.2	25x40	LLA2W221MQ040***
		0.15	905	633	1.3	30x30	LLA2W221MR030***
		0.15	905	633	1.3	35x25	LLA2W221MS025***
	270	0.15	737	516	1.4	30x35	LLA2W271MR035***
		0.15	737	516	1.5	35x30	LLA2W271MS030***
	330	0.15	603	423	1.7	30x40	LLA2W331MR040***
	390	0.15	510	357	1.9	35x35	LLA2W391MS035***
	470	0.15	424	296	2.2	35x40	LLA2W471MS040***
	560	0.15	356	285	2.4	35x50	LLA2W561MS050***
	680	0.15	293	235	2.8	35x60	LLA2W681MS060***
		0.15	293	235	2.8	40x50	LLA2W681MB050***
	820	0.15	242	194	3.2	35x60	LLA2W821MS060***
		0.15	242	194	3.2	40x50	LLA2W821MB050***
	1000	0.15	199	139	3.6	35x70	LLA2W102MS070***
		0.15	199	139	3.6	40x60	LLA2W102MB060***
	1200	0.15	168	108	3.9	35x90	LLA2W122MS090***
		0.15	168	108	3.9	40x70	LLA2W122MB070***

■ LLA series 85℃ 3000 hours,miniaturization snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	100	0.15	1990	1592	0.9	25x30	LLA2H101MQ030***
		0.15	1990	1592	0.9	30x25	LLA2H101MR025***
	120	0.15	1658	1327	1.0	25x35	LLA2H121MQ035***
		0.15	1658	1327	1.0	30x30	LLA2H121MR030***
		0.15	1658	1327	1.0	35x25	LLA2H121MS025***
	150	0.15	1327	1062	1.2	25x40	LLA2H151MQ040***
		0.15	1327	1062	1.2	30x35	LLA2H151MR035***
	180	0.15	1106	885	1.4	30x40	LLA2H181MR040***
		0.15	1106	885	1.3	35x30	LLA2H181MS030***
	220	0.15	905	724	1.6	30x45	LLA2H221MR045***
		0.15	905	724	1.5	35x35	LLA2H221MS035***
	270	0.15	737	590	1.8	30x50	LLA2H271MR050***
		0.15	737	590	1.7	35x40	LLA2H271MS040***
	330	0.15	603	483	2.0	30x50	LLA2H331MR050***
		0.15	603	483	1.9	35x45	LLA2H331MS045***
	390	0.15	511	409	2.3	30x70	LLA2H391MR070***
		0.15	511	409	2.3	35x50	LLA2H391MS050***
	470	0.15	424	339	2.5	30x80	LLA2H471MR080***
		0.15	424	339	2.5	35x60	LLA2H471MS060***
	560	0.15	356	285	2.8	35x65	LLA2H561MS065***
		0.15	356	285	2.8	40x50	LLA2H561MB050***
	680	0.15	293	235	3.2	35x70	LLA2H681MS070***
		0.15	293	235	3.2	40x60	LLA2H681MB060***
	820	0.15	260	190	4.1	35x80	LLA2H821MS080***
		0.15	260	190	4.1	40x70	LLA2H821MB070***
	1000	0.15	220	160	4.5	35x100	LLA2H102MS100***
		0.15	220	160	4.5	40x80	LLA2H102MB080***

*** Indicates terminal type, length, and sleeve color.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LLB series 85℃ 5000 hours





- **Rohs requirements.**
- **85℃ 5000 hours,miniaturization series.**
- **Used for power supplies,inverters and other industrial products**

■ Product description

Item	Characteristic							
Operating temperature range	-40℃ ~ +85℃					-25℃ ~ +85℃		
Rated voltage(WV/V)	10V ~ 450V					460V ~ 500V		
Capacitance(CAP/C)	68 ~ 47000μF							
Tolerance(CAP/C)	±20% (25℃, 120Hz)							
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)							
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	10	16	25	35	50	63 ~ 100	160 ~ 500
	DF	0.80	0.60	0.50	0.40	0.30	0.20	0.15
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)		10	16 ~ 35	50 ~ 100	160 ~ 200	250 ~ 450	460 ~ 500
	Z(-25℃/Z(+25℃)		5	4	3		4	
	Z(-40℃/Z(+25℃)		18	15	10	6	8	0
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6							
	C(-25℃/C(+25℃)≥0.7							

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	6000h	>100000h	5000h	5000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

■ Ripple current correction factor

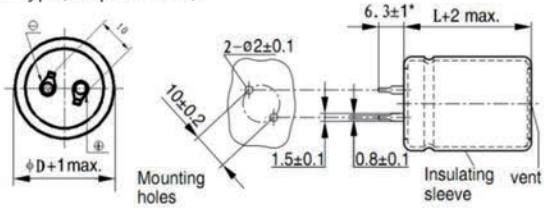
Temp.℃ / UR(V)	40	55	70	85
<160	2.1	1.8	1.5	1.0
≥160	1.7	1.5	1.3	1.0

Freq. / UR(V)	50/60Hz	120Hz	1KHz	10KHz	≥50KHz
≤50	0.88	1.00	1.15	1.15	1.15
63-100	0.80	1.00	1.30	1.45	1.50
≥160	0.80	1.00	1.30	1.40	1.42

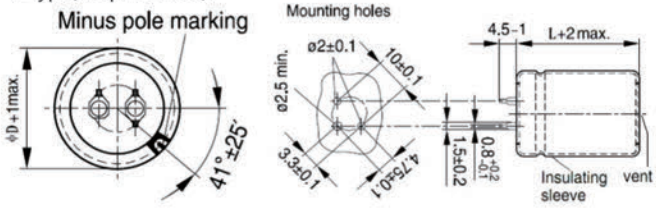
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

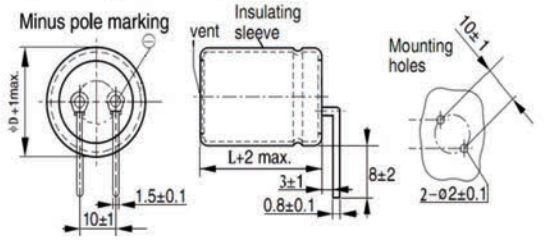
K-Type(Snap in 2 Pins):



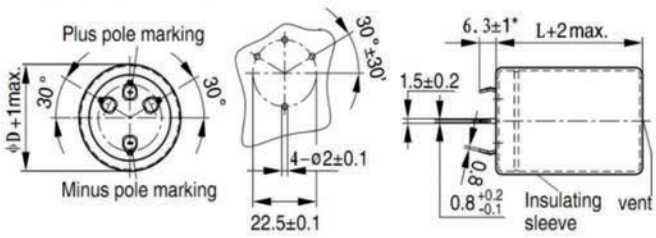
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LLB series 85℃ 5000 hours,miniaturization snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
10 1A (13)	10000	0.80	106	74	2.5	22x25	LLB1A103MP025***
	12000	0.80	89	62	2.7	22x25	LLB1A123MP025***
	15000	0.80	71	50	3.2	22x30	LLB1A153MP030***
		0.80	71	50	3.1	25x25	LLB1A153MQ025***
	18000	0.80	59	41	3.6	22x35	LLB1A183MP035***
		0.80	59	41	3.6	25x30	LLB1A183MQ030***
	22000	0.80	48	34	4.0	22x40	LLB1A223MP040***
		0.80	48	34	4.1	25x35	LLB1A223MQ035***
		0.80	48	34	4.1	30x25	LLB1A223MR025***
16 1C (20)	8200	0.60	97	68	2.2	22x25	LLB1C822MP025***
	10000	0.60	80	56	2.6	22x30	LLB1C103MP030***
		0.60	80	56	2.6	25x25	LLB1C103MQ025***
	12000	0.60	66	46	2.9	22x35	LLB1C123MP035***
	15000	0.60	53	37	3.3	22x40	LLB1C153MP040***
		0.60	53	37	3.3	25x30	LLB1C153MQ030***
		0.60	53	37	3.4	30x25	LLB1C153MR025***
	18000	0.60	44	31	3.8	22x45	LLB1C183MP045***
		0.60	44	31	3.7	25x35	LLB1C183MQ035***
	22000	0.60	36	25	4.2	22x50	LLB1C223MP050***
		0.60	36	25	4.2	25x40	LLB1C223MQ040***
		0.60	36	25	4.2	30x30	LLB1C223MR030***
		0.60	36	25	4.4	35x25	LLB1C223MS025***
25 1E (32)	5600	0.50	119	83	2.0	22x25	LLB1E562MP025***
	6800	0.50	98	68	2.3	22x30	LLB1E682MP030***
		0.50	98	68	2.3	25x25	LLB1E682MQ025***
	8200	0.50	81	57	2.6	22x35	LLB1E822MP035***
	10000	0.50	66	46	2.9	22x40	LLB1E103MP040***
		0.50	66	46	2.8	25x30	LLB1E103MQ030***
		0.50	66	46	3.0	30x25	LLB1E103MR025***
	12000	0.50	55	39	3.3	22x45	LLB1E123MP045***
		0.50	55	39	3.2	25x35	LLB1E123MQ035***
		0.50	55	39	3.4	30x30	LLB1E123MR030***
	15000	0.50	44	31	3.7	25x40	LLB1E153MQ040***
		0.50	44	31	3.9	35x25	LLB1E153MS025***
	18000	0.50	37	26	4.3	25x50	LLB1E183MQ050***
		0.50	37	26	4.2	30x35	LLB1E183MR035***
		0.50	37	26	4.4	35x30	LLB1E183MS030***
	22000	0.50	30	21	4.8	30x40	LLB1E223MR040***
	22000	0.50	30	21	5.0	35x35	LLB1E223MS035***
35 1V (44)	3300	0.40	161	113	1.8	22x25	LLB1V332MP025***
	3900	0.40	136	95	2.1	22x30	LLB1V392MP030***
	4700	0.40	113	79	2.2	25x25	LLB1V472MQ025***
	5600	0.40	95	66	2.3	22x35	LLB1V562MP035***
		0.40	95	66	2.3	25x30	LLB1V562MQ030***
	6800	0.40	78	55	2.6	35x25	LLB1V682MS025***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
35 1V (44)	6800	0.40	78	55	2.9	22x40	LLB1V682MP040***
		0.40	78	55	2.6	25x35	LLB1V682MQ035***
		0.40	78	55	2.7	30x25	LLB1V682MR025***
	8200	0.40	65	45	2.8	22x50	LLB1V822MP050***
		0.40	65	45	2.8	25x40	LLB1V822MQ040***
		0.40	65	45	2.8	30x30	LLB1V822MR030***
		0.40	65	45	2.9	35x25	LLB1V822MS025***
	10000	0.40	53	37	3.1	25x45	LLB1V103MQ045***
		0.40	53	37	3.2	30x35	LLB1V103MR035***
	12000	0.40	44	31	3.5	25x50	LLB1V123MQ050***
		0.40	44	31	3.5	30x40	LLB1V123MR040***
		0.40	44	31	3.6	35x30	LLB1V123MS030***
	15000	0.40	35	25	4.1	30x45	LLB1V153MR045***
		0.40	35	25	4.1	35x35	LLB1V153MS035***
	18000	0.40	30	21	4.6	30x50	LLB1V183MR050***
		0.40	30	21	4.7	35x40	LLB1V183MS040***
	22000	0.40	24	17	5.3	35x45	LLB1V223MS045***
50 1H (63)	2200	0.30	181	127	1.7	22x25	LLB1H222MP025***
	2700	0.30	147	103	1.9	22x30	LLB1H272MP030***
		0.30	147	103	1.9	25x25	LLB1H272MQ025***
	3300	0.30	121	85	2.0	22x30	LLB1H332MP030***
	3900	0.30	102	72	2.1	22x35	LLB1H392MP035***
		0.30	102	72	2.1	25x30	LLB1H392MQ030***
		0.30	102	72	2.4	30x25	LLB1H392MR025***
	4700	0.30	85	59	2.4	22x40	LLB1H472MP040***
		0.30	85	59	2.4	25x35	LLB1H472MQ035***
	5600	0.30	71	50	2.5	22x50	LLB1H562MP050***
		0.30	71	50	2.5	25x40	LLB1H562MQ040***
		0.30	71	50	2.5	30x30	LLB1H562MR030***
		0.30	71	50	2.6	35x25	LLB1H562MS025***
	6800	0.30	59	41	2.8	25x45	LLB1H682MQ045***
		0.30	59	41	2.8	30x35	LLB1H682MR035***
	8200	0.30	49	34	3.2	25x50	LLB1H822MQ050***
		0.30	49	34	3.0	30x40	LLB1H822MR040***
		0.30	49	34	3.0	35x30	LLB1H822MS030***
	10000	0.30	40	28	3.4	30x45	LLB1H103MR045***
		0.30	40	28	3.4	35x35	LLB1H103MS035***
	12000	0.30	33	23	3.8	30x50	LLB1H123MR050***
		0.30	33	23	3.8	35x40	LLB1H123MS040***
	15000	0.30	27	19	4.5	35x50	LLB1H153MS050***
	18000	0.30	23	16	5.3	35x50	LLB1H183MS050***
	22000	0.30	21	14	5.9	35x60	LLB1H223MS060***
	27000	0.30	18	12	6.5	35x70	LLB1H273MS070***
	33000	0.30	16	10	7.1	35x80	LLB1H333MS080***
	47000	0.30	14	9	7.9	35x95	LLB1H473MS095***

■ LLB series 85℃ 5000 hours,miniaturization snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
63 1J (79)	1500	0.20	177	124	1.6	22x25	LLB1J152MP025***
	1800	0.20	147	103	1.8	22x30	LLB1J182MP030***
	2200	0.20	121	84	2.0	22x35	LLB1J222MP035***
		0.20	121	84	2.0	25x30	LLB1J223MQ030***
	2700	0.20	98	69	2.2	22x40	LLB1J272MP040***
		0.20	98	69	2.3	25x35	LLB1J272MQ035***
	3300	0.20	80	56	2.3	22x45	LLB1J332MP045***
		0.20	80	56	2.3	25x35	LLB1J332MQ035***
		0.20	80	56	2.3	30x30	LLB1J332MR030***
	3900	0.20	68	48	2.5	22x50	LLB1J392MP050***
		0.20	68	48	2.6	25x40	LLB1J392MQ040***
		0.20	68	48	2.6	30x30	LLB1J392MR030***
		0.20	68	48	2.7	35x25	LLB1J392MS025***
	4700	0.20	57	40	2.9	30x35	LLB1J472MR035***
	5600	0.20	47	33	3.1	25x50	LLB1J562MQ050***
		0.20	47	33	3.2	30x40	LLB1J562MR040***
		0.20	47	33	3.3	35x30	LLB1J562MS030***
	6800	0.20	39	27	3.6	30x45	LLB1J682MR045***
		0.20	39	27	3.7	35x35	LLB1J682MS035***
	8200	0.20	32	23	3.7	30x50	LLB1J822MR050***
		0.20	32	23	3.8	35x40	LLB1J822MS040***
	10000	0.20	27	19	4.3	35x45	LLB1J103MS045***
	12000	0.20	22	16	4.8	35x50	LLB1J123MS050***
80 1K (100)	1000	0.20	265	186	1.3	22x25	LLB1K102MP025***
	1200	0.20	221	155	1.5	22x30	LLB1K122MP030***
	1500	0.20	177	124	1.7	25x25	LLB1K152MQ025***
	1800	0.20	147	103	1.9	22x35	LLB1K182MP035***
		0.20	147	103	1.9	25x30	LLB1K182MQ030***
	2200	0.20	121	84	2.1	22x40	LLB1K222MP040***
		0.20	121	84	2.2	25x35	LLB1K222MQ035***
		0.20	121	84	2.2	30x25	LLB1K222MR025***
	2700	0.20	98	69	2.5	22x50	LLB1K272MP050***
		0.20	98	69	2.5	25x40	LLB1K272MQ040***
		0.20	98	69	2.5	30x30	LLB1K272MR030***
		0.20	98	69	2.5	35x25	LLB1K272MS025***
	3300	0.20	80	56	2.8	25x45	LLB1K332MQ045***
		0.20	80	56	2.8	30x35	LLB1K332MR035***
	3900	0.20	68	48	3.1	25x50	LLB1K392MQ050***
		0.20	68	48	3.2	30x40	LLB1K392MR040***
		0.20	68	48	3.2	35x30	LLB1K392MS030***
	4700	0.20	57	40	3.6	30x45	LLB1K472MR045***
		0.20	57	40	3.6	35x35	LLB1K472MS035***
	5600	0.20	47	33	3.8	30x50	LLB1K562MR050***
		0.20	47	33	3.8	35x40	LLB1K562MS040***
	6800	0.20	39	27	4.1	35x50	LLB1K682MS050***
	8200	0.20	34	23	4.4	35x60	LLB1K822MS060***
	10000	0.20	31	20	4.9	35x70	LLB1K103MS070***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
100 2A (125)	680	0.20	390	273	1.1	22x25	LLB2A681MP025***
	820	0.20	324	227	1.2	22x30	LLB2A821MP030***
	1000	0.20	265	186	1.4	25x30	LLB2A102MQ030***
	1200	0.20	221	155	1.6	22x35	LLB2A122MP035***
		0.20	221	155	1.6	25x30	LLB2A122MQ030***
	1500	0.20	177	124	1.8	22x45	LLB2A152MP045***
		0.20	177	124	1.7	25x35	LLB2A152MQ035***
		0.20	177	124	1.8	30x25	LLB2A152MR025***
	1800	0.20	147	103	2.1	22x50	LLB2A182MP050***
		0.20	147	103	2.0	25x40	LLB2A182MQ040***
		0.20	147	103	2.1	30x30	LLB2A182MR030***
		0.20	147	103	2.2	35x25	LLB2A182MS025***
	2200	0.20	121	84	2.2	25x45	LLB2A222MQ045***
		0.20	121	84	2.3	30x35	LLB2A222MR035***
		0.20	121	84	2.5	35x30	LLB2A222MS030***
	2700	0.20	98	69	2.6	25x55	LLB2A272MQ055***
		0.20	98	69	2.7	30x40	LLB2A272MR040***
	3300	0.20	80	56	3.0	30x45	LLB2A332MR045***
		0.20	80	56	3.1	35x35	LLB2A332MS035***
	3900	0.20	68	48	3.4	30x50	LLB2A392MR050***
		0.20	68	48	3.4	35x40	LLB2A392MS040***
	4700	0.20	57	40	4.0	35x45	LLB2A472MS045***
160 2C (200)	220	0.15	905	663	1.0	22x25	LLB2C221MP025***
	270	0.15	737	516	1.1	22x25	LLB2C271MP025***
	330	0.15	603	422	1.3	22x25	LLB2C331MP025***
	390	0.15	510	357	1.5	22x30	LLB2C391MP030***
		0.15	510	357	1.5	25x25	LLB2C391MQ025***
	470	0.15	424	297	1.7	25x30	LLB2C471MQ030***
	560	0.15	355	249	1.9	22x40	LLB2C561MP040***
		0.15	355	249	1.9	25x30	LLB2C561MQ030***
		0.15	355	249	2.0	30x25	LLB2C561MR025***
	680	0.15	293	205	2.1	22x45	LLB2C681MP045***
		0.15	293	205	2.2	25x35	LLB2C681MQ035***
	820	0.15	243	170	2.5	22x50	LLB2C821MP050***
		0.15	243	170	2.4	25x40	LLB2C821MQ040***
		0.15	243	170	2.5	30x30	LLB2C821MR030***
		0.15	243	170	2.4	35x25	LLB2C821MS025***
	1000	0.15	199	139	2.7	25x45	LLB2C102MQ045***
		0.15	199	139	2.8	30x35	LLB2C102MR035***
		0.15	199	139	2.7	35x30	LLB2C102MS030***
	1200	0.15	166	116	3.1	25x50	LLB2C122MQ050***
		0.15	166	116	3.2	30x40	LLB2C122MR040***
		0.15	166	116	3.0	35x35	LLB2C122MS035***
	1500	0.15	133	93	3.7	30x45	LLB2C152MR045***
		0.15	133	93	3.5	35x40	LLB2C152MS040***
	1800	0.15	111	77	3.9	35x45	LLB2C182MS045***
	2200	0.15	91	63	4.5	35x50	LLB2C222MS050***

■ LLB series 85℃ 5000 hours,miniaturization snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
180 2K (225)	270	0.15	727	516	1.2	22x25	LLB2K271MP025***
	330	0.15	603	422	1.4	22x30	LLB2K331MP030***
	390	0.15	510	357	1.5	25x25	LLB2K391MQ025***
	470	0.15	424	296	1.7	22x35	LLB2K471MP035***
		0.15	424	296	1.7	25x30	LLB2K471MQ030***
		0.15	424	296	1.8	30x25	LLB2K471MR025***
	560	0.15	355	249	1.9	22x40	LLB2K561MP040***
		0.15	355	249	2.0	25x35	LLB2K561MQ035***
	680	0.15	293	205	2.3	22x50	LLB2K681MP050***
		0.15	293	205	2.2	25x40	LLB2K681MQ040***
		0.15	293	205	2.3	30x30	LLB2K681MR030***
		0.15	293	205	2.2	35x25	LLB2K681MS025***
	820	0.15	243	170	2.5	25x45	LLB2K821MQ045***
		0.15	243	170	2.6	30x35	LLB2K821MR035***
		0.15	243	170	2.5	35x30	LLB2K821MS030***
	1000	0.15	199	139	2.9	25x50	LLB2K102MQ050***
		0.15	199	139	2.9	30x40	LLB2K102MR040***
	1200	0.15	166	116	3.3	30x45	LLB2K122MR045***
		0.15	166	116	3.1	35x35	LLB2K122MS035***
	1500	0.15	133	93	3.6	35x45	LLB2K152MS045***
	1800	0.15	111	77	4.1	35x50	LLB2K182MS050***
200 2D (250)	220	0.15	905	633	1.1	22x25	LLB2D221MP025***
	270	0.15	737	516	1.2	22x25	LLB2D271MP025***
	330	0.15	603	422	1.4	22x30	LLB2D331MP030***
		0.15	603	422	1.4	25x25	LLB2D331MQ025***
	390	0.15	510	357	1.6	22x35	LLB2D391MP035***
		0.15	510	357	1.6	25x30	LLB2D391MQ030***
	470	0.15	424	296	1.8	22x40	LLB2D471MP040***
		0.15	424	296	1.9	30x25	LLB2D471MR025***
	560	0.15	355	249	2.0	22x45	LLB2D561MP045***
		0.15	355	249	2.0	25x35	LLB2D561MQ035***
		0.15	355	249	2.1	30x30	LLB2D561MR030***
		0.15	355	249	2.0	35x25	LLB2D561MS025***
	680	0.15	293	205	2.3	25x40	LLB2D680MQ040***
		0.15	293	205	2.4	30x35	LLB2D680MR035***
	820	0.15	243	170	2.6	25x50	LLB2D821MQ050***
		0.15	243	170	2.7	30x40	LLB2D821MR040***
		0.15	243	170	2.5	35x30	LLB2D821MS030***
	1000	0.15	199	139	3.1	30x45	LLB2D102MR045***
		0.15	199	139	2.8	35x35	LLB2D102MS035***
	1200	0.15	166	116	3.4	30x50	LLB2D122MR050***
		0.15	166	116	3.2	35x40	LLB2D122MS040***
	1500	0.15	133	93	3.8	35x50	LLB2D152MS050***
	1800	0.15	118	81	4.2	35x50	LLB2D182MS050***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	180	0.15	1106	774	0.9	22x25	LLB2E181MP025***
	220	0.15	905	633	1.1	22x30	LLB2E221MP030***
		0.15	905	633	1.1	25x25	LLB2E221MQ025***
	270	0.15	737	516	1.2	22x35	LLB2E271MP035***
	330	0.15	603	422	1.4	22x40	LLB2E331MP040***
		0.15	603	422	1.4	25x30	LLB2E331MQ030***
		0.15	603	422	1.5	30x25	LLB2E331MR025***
	390	0.15	510	357	1.6	22x45	LLB2E391MP045***
		0.15	510	357	1.6	25x35	LLB2E391MQ035***
	470	0.15	424	296	1.8	22x50	LLB2E471MP050***
		0.15	424	296	1.8	25x40	LLB2E471MQ040***
		0.15	424	296	1.8	30x30	LLB2E471MR030***
		0.15	424	296	1.9	35x25	LLB2E471MS025***
	560	0.15	355	249	2.0	25x45	LLB2E561MQ045***
		0.15	355	249	2.0	30x35	LLB2E561MR035***
	680	0.15	293	205	2.3	30x40	LLB2E681MR040***
		0.15	293	205	2.4	35x30	LLB2E681MS030***
	820	0.15	243	170	2.6	30x45	LLB2E821MR045***
		0.15	243	170	2.6	35x35	LLB2E821MS035***
	1000	0.15	199	139	3.0	35x40	LLB2E102MS040***
	1200	0.15	166	116	3.4	35x45	LLB2E122MS045***
315 2F (365)	100	0.15	1990	1390	0.6	22x25	LLB2F101MP025***
	120	0.15	1659	1160	0.7	22x30	LLB2F121MP030***
	150	0.15	1327	929	0.8	22x30	LLB2F151MP030***
		0.15	1327	929	0.8	25x25	LLB2F151MQ025***
	180	0.15	1106	774	0.9	22x35	LLB2F181MP035***
		0.15	1106	774	0.9	25x30	LLB2F181MQ030***
	220	0.15	905	633	1.1	22x40	LLB2F221MP040***
		0.15	905	633	1.1	25x35	LLB2F221MQ035***
		0.15	905	633	1.1	30x25	LLB2F221MR025***
	270	0.15	737	516	1.2	22x45	LLB2F271MP045***
		0.15	737	516	1.3	25x40	LLB2F271MQ040***
		0.15	737	516	1.3	30x30	LLB2F271MR030***
		0.15	737	516	1.3	35x25	LLB2F271MS025***
	330	0.15	603	422	1.4	25x45	LLB2F331MQ045***
		0.15	603	422	1.4	30x35	LLB2F331MR035***
	390	0.15	510	357	1.6	25x50	LLB2F391MQ050***
		0.15	510	357	1.6	30x40	LLB2F391MR040***
		0.15	510	357	1.6	35x30	LLB2F391MS030***
	470	0.15	424	296	1.8	30x45	LLB2F471MR045***
		0.15	424	296	1.8	35x35	LLB2F471MS035***
	560	0.15	355	249	2.0	30x50	LLB2F561MR050***
		0.15	355	249	2.0	35x40	LLB2F561MS040***
	680	0.15	293	205	2.3	35x45	LLB2F681MS045***

■ LLB series 85℃ 5000 hours,miniaturization snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	82	0.15	2427	1699	0.6	22x25	LLB2V820MP025***
	100	0.15	1990	1393	0.7	22x25	LLB2V101MP025***
	120	0.15	1659	1161	0.8	22x30	LLB2V121MP030***
		0.15	1659	1161	0.8	25x25	LLB2V121MQ025***
	150	0.15	1327	929	0.9	22x35	LLB2V151MP035***
		0.15	1327	929	0.9	25x30	LLB2V151MQ030***
	180	0.15	1106	774	1.1	22x40	LLB2V181MP040***
		0.15	1106	774	1.1	30x25	LLB2V181MR025***
	220	0.15	905	633	1.2	22x45	LLB2V221MP045***
		0.15	905	633	1.2	25x35	LLB2V221MQ035***
		0.15	905	633	1.2	30x30	LLB2V221MR030***
		0.15	905	633	1.3	35x25	LLB2V221MS025***
	270	0.15	737	516	1.4	25x45	LLB2V271MQ045***
		0.15	737	516	1.4	30x35	LLB2V271MR035***
	330	0.15	603	422	1.6	25x50	LLB2V331MQ050***
		0.15	603	422	1.6	35x30	LLB2V331MS030***
	390	0.15	510	357	1.7	30x40	LLB2V391MR040***
		0.15	510	357	1.8	35x35	LLB2V391MS035***
	470	0.15	424	296	2.0	30x45	LLB2V471MR045***
		0.15	424	296	2.0	35x40	LLB2V471MS040***
	560	0.15	355	249	2.3	35x45	LLB2V561MS045***
	680	0.15	293	205	2.6	35x50	LLB2V681MS050***
400 2G (450)	68	0.15	2927	2049	0.6	22x25	LLB2G680MP025***
	82	0.15	2427	1699	0.6	22x25	LLB2G820MP025***
	100	0.15	1990	1393	0.7	22x30	LLB2G101MP030***
		0.15	1990	1393	0.7	25x25	LLB2G101MQ025***
	120	0.15	1659	1161	0.8	22x35	LLB2G121MP035***
	150	0.15	1327	929	0.9	22x40	LLB2G151MP040***
		0.15	1327	929	0.9	25x30	LLB2G151MQ030***
		0.15	1327	929	1.0	30x25	LLB2G151MR025***
	180	0.15	1106	774	1.0	22x45	LLB2G181MP045***
		0.15	1106	774	1.0	25x35	LLB2G181MQ035***
		0.15	1106	774	1.1	30x30	LLB2G181MR030***
		0.15	1106	774	1.1	35x25	LLB2G181MS025***
	220	0.15	905	633	1.1	22x50	LLB2G221MP050***
		0.15	905	633	1.2	25x40	LLB2G221MQ040***
		0.15	905	633	1.2	30x35	LLB2G221MR035***
	270	0.15	737	516	1.3	25x45	LLB2G271MQ045***
		0.15	737	516	1.4	30x40	LLB2G271MR040***
		0.15	737	516	1.6	35x30	LLB2G271MS030***
	330	0.15	603	422	1.6	30x45	LLB2G331MR045***
		0.15	603	422	1.7	35x35	LLB2G331MS035***
	390	0.15	510	357	1.8	30x50	LLB2G391MR050***
		0.15	510	357	1.8	35x40	LLB2G391MS040***
	470	0.15	424	296	2.1	35x45	LLB2G471MS045***
	560	0.15	355	249	2.3	35x50	LLB2G561MS050***
	680	0.15	293	235	2.7	35x55	LLB2G681MS055***
	820	0.15	242	194	3.1	35x60	LLB2G821MS060***
		0.15	242	194	3.1	40x50	LLB2G821MB050***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (450)	68	0.15	2972	1522	0.6	22x25	LLB2I680MP025***
	82	0.15	2427	1262	0.6	22x30	LLB2I820MP030***
	100	0.15	1990	1035	0.7	22x35	LLB2I101MP035***
	120	0.15	1659	863	0.8	22x40	LLB2I121MP040***
		0.15	1659	863	0.8	25x30	LLB2I121MQ030***
	150	0.15	1327	690	0.9	22x45	LLB2I151MP045***
		0.15	1327	690	0.9	25x35	LLB2I151MQ035***
	180	0.15	1106	575	1.1	25x40	LLB2I181MQ040***
		0.15	1106	575	1.1	30x30	LLB2I181MR030***
	220	0.15	905	471	1.2	25x45	LLB2I221MQ045***
		0.15	905	471	1.3	30x35	LLB2I221MR035***
	270	0.15	737	383	1.3	25x50	LLB2I271MQ050***
		0.15	737	383	1.4	30x40	LLB2I271MR040***
	330	0.15	603	314	1.6	30x45	LLB2I331MR045***
		0.15	603	314	1.6	35x35	LLB2I331MS035***
	390	0.15	510	265	1.9	30x50	LLB2I391MR050***
	470	0.15	424	220	2.2	35x45	LLB2I471MS045***
	560	0.15	355	185	2.4	35x50	LLB2I561MS050***
	680	0.15	293	153	2.8	35x55	LLB2I681MS055***
	820	0.15	242	126	3.2	35x60	LLB2I821MS060***
450 2W (500)	68	0.15	2927	2049	0.6	22x30	LLB2W680MP030***
	82	0.15	2427	1699	0.6	22x35	LLB2W820MP035***
	100	0.15	1990	1393	0.7	22x35	LLB2W101MP035***
		0.15	1990	1393	0.7	25x30	LLB2W101MQ030***
	120	0.15	1659	1161	0.8	22x40	LLB2W121MP040***
		0.15	1659	1161	0.8	25x35	LLB2W121MQ035***
	150	0.15	1327	929	1.0	22x50	LLB2W151MP050***
		0.15	1327	929	1.0	25x40	LLB2W151MQ040***
		0.15	1327	929	1.0	30x30	LLB2W151MR030***
	180	0.15	1106	774	1.1	25x45	LLB2W181MQ045***
		0.15	1106	774	1.1	30x35	LLB2W181MR035***
		0.15	1106	774	1.2	35x25	LLB2W181MS025***
	220	0.15	905	633	1.2	25x50	LLB2W221MQ050***
		0.15	905	633	1.3	30x40	LLB2W221MR040***
		0.15	905	633	1.3	35x30	LLB2W221MS030***
	270	0.15	737	516	1.4	30x45	LLB2W271MR045***
		0.15	737	516	1.5	35x35	LLB2W271MS035***
	330	0.15	603	423	1.7	30x50	LLB2W331MR050***
	390	0.15	510	357	1.9	35x45	LLB2W391MS045***
	470	0.15	424	296	2.2	35x50	LLB2W471MS050***
	560	0.15	356	285	2.4	35x50	LLB2W561MS050***
	680	0.15	293	235	2.8	35x60	LLB2W681MS060***
		0.15	293	235	2.8	40x50	LLB2W681MB050***
	820	0.15	242	194	3.2	35x60	LLB2W821MS060***
		0.15	242	194	3.2	40x60	LLB2W821MB060***
	1000	0.15	199	139	3.6	35x80	LLB2W102MS080***
		0.15	199	139	3.6	40x60	LLB2W102MB060***
	1200	0.15	168	108	3.9	35x90	LLB2W122MS090***
		0.15	168	108	3.9	40x70	LLB2W122MB070***

■ LLB series 85℃ 5000 hours,miniaturization snap-in capacitor

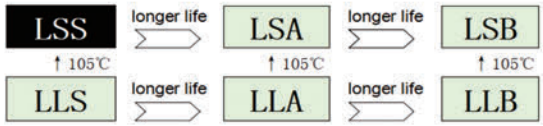
WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	100	0.15	1990	1592	0.9	25x30	LLB2H101MQ030***
		0.15	1990	1592	0.9	30x25	LLB2H101MR025***
	120	0.15	1658	1327	1.0	25x35	LLB2H121MQ035***
		0.15	1658	1327	1.0	30x30	LLB2H121MR030***
		0.15	1658	1327	1.0	35x25	LLB2H121MS025***
	150	0.15	1327	1062	1.2	25x40	LLB2H151MQ040***
		0.15	1327	1062	1.2	30x35	LLB2H151MR035***
	180	0.15	1106	885	1.4	30x40	LLB2H181MR040***
		0.15	1106	885	1.3	35x30	LLB2H181MS030***
	220	0.15	905	724	1.6	30x45	LLB2H221MR045***
		0.15	905	724	1.5	35x35	LLB2H221MS035***
	270	0.15	737	590	1.8	30x50	LLB2H271MR050***
		0.15	737	590	1.7	35x40	LLB2H271MS040***
	330	0.15	603	483	2.0	30x50	LLB2H331MR050***
		0.15	603	483	1.9	35x45	LLB2H331MS045***
	390	0.15	511	409	2.3	30x70	LLB2H391MR070***
		0.15	511	409	2.3	35x50	LLB2H391MS050***
	470	0.15	424	339	2.5	30x80	LLB2H471MR080***
		0.15	424	339	2.5	35x60	LLB2H471MS060***
	560	0.15	356	285	2.8	35x65	LLB2H561MS065***
		0.15	356	285	2.8	40x50	LLB2H561MB050***
	680	0.15	293	235	3.2	35x70	LLB2H681MS070***
		0.15	293	235	3.2	40x60	LLB2H681MB060***
	820	0.15	260	190	4.1	35x80	LLB2H821MS080***
		0.15	260	190	4.1	40x70	LLB2H821MB070***
	1000	0.15	220	160	4.5	35x100	LLB2H102MS100***
		0.15	220	160	4.5	40x80	LLB2H102MB080***

*** Indicates terminal type, length, and sleeve color.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

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LSS series 105℃ 2000 hours





- **Rohs requirements**
- **105℃ 2000 hours,miniaturization series**
- **Used for switching power supply, servo, inverter, laser welding machines, consumer electronics, and printed circuit boards and other general industrial products**

■ Product description

Item	Characteristic		
Operating temperature range	-40℃ ~ +105℃	-25℃ ~ +105℃	
Rated voltage(WV/V)	200V ~ 450V		
Capacitance(CAP/C)	100 ~ 3300μF		
Tolerance(CAP/C)	±20% (25℃, 120Hz)		
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)		
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	200 ~ 450	
	DF	0.15	
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	200 ~ 250	400 ~ 450
	Z(-25℃/Z(+25℃)	4	8
	Z(-40℃/Z(+25℃)	12	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6		
	C(-25℃/C(+25℃)≥0.7		

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	4000h	>180000h	2000h	3000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

■ Ripple current correction factor

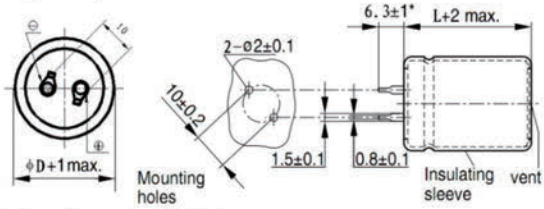
Temp.℃	40	55	80	105
Coefficient	2.7	2.5	1.7	1.0

Freq.	50/60Hz	120Hz	1KHz	10KHz	≥50KHz
Coefficient	0.80	1.00	1.30	1.41	1.43

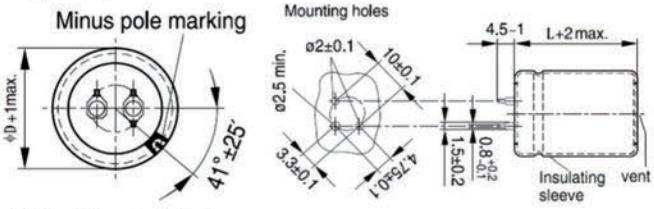
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

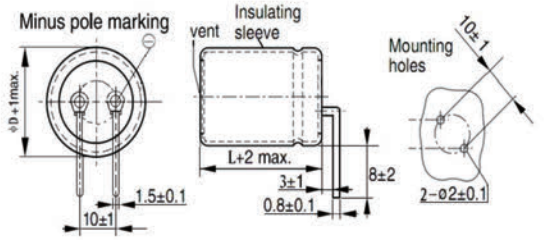
K-Type(Snap in 2 Pins):



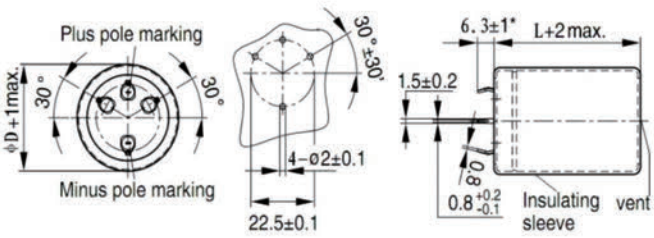
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



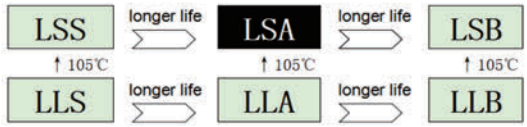
■ LSS series 105℃ 2000 hours,miniaturization snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
200 2D (250)	330	0.15	601	420	1.00	22x30	LSS2D331MP030***
	390	0.15	508	355	1.10	22x35	LSS2D391MP035***
	470	0.15	421	294	1.20	22x35	LSS2D471MP035***
		0.15	421	294	1.20	25x30	LSS2D471MQ030***
	560	0.15	353	246	1.50	22x40	LSS2D561MP040***
		0.15	353	246	1.50	25x35	LSS2D561MQ035***
	680	0.15	290	202	1.60	22x50	LSS2D681MP050***
		0.15	290	202	1.60	25x40	LSS2D681MQ040***
		0.15	290	202	1.60	30x30	LSS2D681MR030***
	820	0.15	240	167	1.80	22x55	LSS2D821MP055***
		0.15	240	167	1.80	25x45	LSS2D821MQ045***
		0.15	240	167	1.80	30x35	LSS2D821MR035***
	1000	0.15	197	137	2.00	22x65	LSS2D102MP065***
		0.15	197	137	2.00	25x50	LSS2D102MQ050***
		0.15	197	137	2.00	30x40	LSS2D102MR040***
		0.15	197	137	2.00	35x30	LSS2D102MS030***
	1200	0.15	163	114	2.30	25x60	LSS2D122MQ060***
		0.15	163	114	2.30	30x45	LSS2D122MR045***
	1500	0.15	130	90	2.60	30x50	LSS2D152MR050***
		0.15	130	90	2.60	35x40	LSS2D152MS040***
	1800	0.15	108	75	2.70	30x60	LSS2D182MR060***
		0.15	108	75	2.70	35x45	LSS2D182MS045***
	2200	0.15	88	61	2.90	30x70	LSS2D222MS070***
		0.15	88	61	3.30	35x50	LSS2D222MS050***
	2700	0.15	71	49	3.30	30x80	LSS2D272MR080***
		0.15	71	49	3.40	35x60	LSS2D272MS060***
	3300	0.15	66	45	3.50	35x70	LSS2D332MS070***
250 2E (300)	220	0.15	902	631	1.00	22x25	LSS2E221MP025***
	270	0.15	735	514	1.10	22x30	LSS2E271MP030***
	330	0.15	601	420	1.20	22x35	LSS2E331MP035***
		0.15	601	420	1.20	25x30	LSS2E331MQ030***
	390	0.15	508	355	1.40	22x35	LSS2E391MP035***
		0.15	508	355	1.40	25x30	LSS2E391MQ030***
	470	0.15	421	294	1.60	22x40	LSS2E471MP040***
		0.15	421	294	1.60	25x35	LSS2E471MQ035***
	560	0.15	352	246	1.70	22x50	LSS2E561MP050***
		0.15	352	246	1.70	25x40	LSS2E561MQ040***
	680	0.15	290	202	1.90	22x55	LSS2E681MP055***
		0.15	290	202	1.90	25x45	LSS2E681MQ045***
		0.15	290	202	1.90	30x35	LSS2E681MR035***
	820	0.15	240	167	2.10	25x50	LSS2E821MQ050***
		0.15	240	167	2.10	30x35	LSS2E821MR035***
	1000	0.15	197	137	2.40	25x60	LSS2E102MQ060***
		0.15	197	137	2.40	30x45	LSS2E102MR045***
		0.15	197	137	2.40	35x35	LSS2E102MS035***
	1200	0.15	163	114	2.60	30x50	LSS2E122MR060***
	1500	0.15	130	90	2.70	30x60	LSS2E152MR060***
		0.15	130	90	2.70	35x45	LSS2E152MS045***
	1800	0.15	108	75	2.80	35x50	LSS2E182MS050***
	2200	0.15	88	61	3.00	35x60	LSS2E222MS060***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	120	0.15	1656	1159	0.70	22x30	LSS2G121MP030***
	150	0.15	1325	772	0.70	22x30	LSS2G151MP030***
	180	0.15	1103	772	0.70	25x30	LSS2G181MQ030***
	220	0.15	902	631	0.80	22x40	LSS2G221MP040***
		0.15	902	631	0.80	25x35	LSS2G221MQ035***
	270	0.15	735	514	0.90	22x50	LSS2G271MP050***
		0.15	735	514	1.10	25x40	LSS2G271MQ040***
		0.15	735	514	1.00	30x30	LSS2G271MR030***
	330	0.15	601	420	1.20	22x55	LSS2G331MP055***
		0.15	601	420	1.10	25x45	LSS2G331MQ045***
		0.15	601	420	1.10	30x35	LSS2G331MR035***
		0.15	601	420	1.10	35x25	LSS2G331MS025***
	390	0.15	508	355	1.50	25x50	LSS2G391MQ050***
		0.15	508	355	1.50	30x35	LSS2G391MR035***
		0.15	508	345	1.50	35x30	LSS2G391MS030***
	470	0.15	421	294	1.50	25x60	LSS2G471MQ060***
		0.15	421	294	1.60	30x40	LSS2G471MR040***
		0.15	421	294	1.50	35x35	LSS2G471MS035***
	560	0.15	353	246	1.70	30x50	LSS2G561MR050***
		0.15	353	246	1.70	35x35	LSS2G561MS035***
	680	0.15	290	202	1.80	30x55	LSS2G681MR055***
		0.15	290	202	1.90	35x45	LSS2G681MS045***
	820	0.15	240	167	2.10	30x65	LSS2G821MR065***
		0.15	197	167	2.10	35x50	LSS2G821MS050***
	1000	0.15	171	135	2.20	30x80	LSS2G102MR080***
		0.15	171	135	2.30	35x55	LSS2G102MS055***
	1200	0.15	138	115	2.50	35x65	LSS2G122MS065***
450 2W (500)	100	0.15	2651	1391	0.10	22x30	LSS2W101MP030***
	120	0.15	2210	1159	0.70	22x30	LSS2W121MP030***
		0.15	2210	1159	0.70	25x25	LSS2W121MQ025**
	150	0.15	1204	926	0.80	22x35	LSS2W151MP035***
		0.15	1204	926	0.80	22x45	LSS2W151MP045***
	180	0.15	1472	772	0.80	22x40	LSS2W181MP040***
		0.15	1472	772	0.80	25x30	LSS2W181MQ030***
	220	0.15	1204	631	0.90	22x45	LSS2W221MP045***
		0.15	1204	631	0.90	25x35	LSS2W221MQ035***
		0.15	1204	631	0.90	30x30	LSS2W221MR030***
	270	0.15	981	514	1.00	22x55	LSS2W271MP055**
		0.15	981	514	1.10	25x40	LSS2W271MQ040***
		0.15	981	514	1.00	30x30	LSS2W271MR030***
		0.15	981	514	1.00	35x25	LSS2W271MS025***
	330	0.15	802	420	1.30	25x50	LSS2W331MQ050***
		0.15	802	420	1.30	30x35	LSS2W331MR035***
		0.15	802	420	1.30	35x30	LSS2W331MS030***
	390	0.15	678	355	1.40	30x40	LSS2W391MR040***
		0.15	678	355	1.50	35x35	LSS2W391MS035***
	470	0.15	563	294	1.60	35x40	LSS2W471MS040***
		0.15	563	294	1.50	30x45	LSS2W471MR045***
	560	0.15	472	246	1.80	35x45	LSS2W561MS045***
	680	0.15	388	202	1.90	35x50	LSS2W681MS050***

*** Indicates terminal type, length, and sleeve color.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
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LSA series 105℃ 3000 hours





- **Rohs requirements.**
- **105℃ 3000 hours,miniaturization series.**
- **Used for switching power supply, servo, inverter,air conditioners, filter circuits, laser welding machines and other general industrial products.**

■ Product description

Item	Characteristic				
Operating temperature range	-40℃ ~ +105℃			-25℃ ~ +105℃	
Rated voltage(WV/V)	63V ~ 450V			460V ~ 550V	
Capacitance(CAP/C)	68 ~ 10000μF				
Tolerance(CAP/C)	±20% (25℃, 120Hz)				
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)				
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	63	80 ~ 100	160 ~ 450	460 ~ 550
	DF	0.25	0.20	0.15	0.15
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)		63~100	250~450	460 ~ 500
	Z(-25℃/Z(+25℃)		4		8
	Z(-40℃/Z(+25℃)		15	10	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6				
	C(-25℃/C(+25℃)≥0.7				

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	5000h	>200000h	3000h	4000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

■ Ripple current correction factor

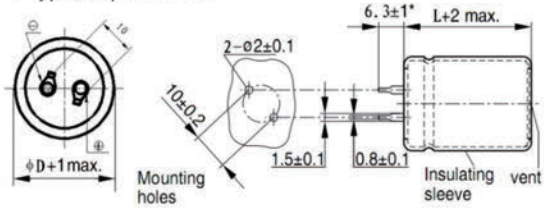
Temp.℃ / UR(V)	40	55	85	105
<160	2.1	1.8	1.5	1.0
≥160	2.7	2.5	1.7	1.0

Freq. / UR(V)	50/60Hz	120Hz	1KHz	10KHz	≥50KHz
≤100	0.95	1.00	1.13	1.19	1.20
160-250	0.87	1.00	1.32	1.45	1.50
≥315	0.80	1.00	1.30	1.41	1.43

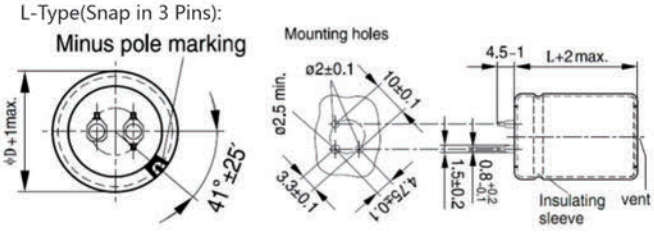
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

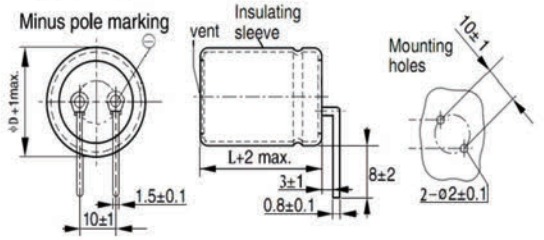
K-Type(Snap in 2 Pins):



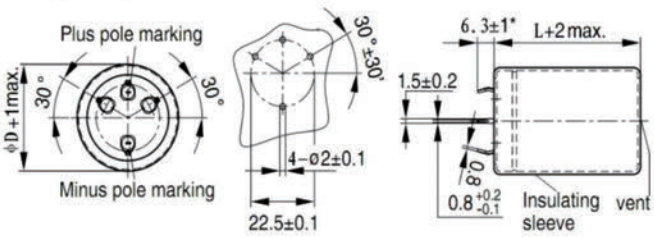
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LSA series 105℃ 3000 hours,miniaturization snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
63 1J (79)	1200	0.25	233	155	1.30	22x25	LSA1J122MP025***
	1800	0.25	155	103	1.50	22x30	LSA1J182MP030***
		0.25	155	103	1.50	25x25	LSA1J182MQ025***
	2200	0.25	126	84	1.70	22x35	LSA1J222MP035***
		0.25	126	84	1.80	25x30	LSA1J222MQ030***
	2700	0.25	104	69	2.00	22x40	LSA1J272MP040***
		0.25	104	69	2.00	25x35	LSA1J272MQ035***
		0.25	104	69	2.00	30x25	LSA1J272MR025***
	3300	0.25	84	56	2.30	22x50	LSA1J332MP050***
		0.25	84	56	2.30	25x40	LSA1J332MQ040***
		0.25	84	56	2.30	30x30	LSA1J332MR030***
		0.25	84	56	2.40	35x25	LSA1J332MS025***
	3900	0.25	72	48	2.40	25x45	LSA1J392MQ045***
		0.25	72	48	2.60	30x35	LSA1J392MR035***
	4700	0.25	60	40	2.60	25x50	LSA1J472MQ050***
		0.25	60	40	2.90	30x40	LSA1J472MR040***
		0.25	60	40	2.90	35x30	LSA1J472MS030***
	5600	0.25	50	33	3.30	30x45	LSA1J562MR045***
		0.25	50	33	3.30	35x35	LSA1J562MS035***
	6800	0.25	41	27	3.80	30x50	LSA1J682MR050***
		0.25	41	27	3.70	35x40	LSA1J682MS040***
	8200	0.25	35	23	4.20	35x45	LSA1J822MS045***
	10000	0.25	29	19	4.70	35x50	LSA1J103MS050***
80 1K (100)	820	0.20	330	220	1.10	22x25	LSA1K821KP025***
	1000	0.20	280	185	1.30	22x25	LSA1K102MP025***
	1200	0.20	233	155	1.40	22x30	LSA1K122MP030***
		0.20	233	155	1.40	25x25	LSA1K122MQ025***
	1500	0.20	188	125	1.60	22x35	LSA1K152MP035***
		0.20	188	125	1.60	25x30	LSA1K152MQ030***
	1800	0.20	155	103	1.80	22x40	LSA1K182MP040***
		0.20	155	103	1.80	30x25	LSA1K182MR025***
	2200	0.20	126	84	2.00	25x35	LSA1K222MQ035***
		0.20	126	84	2.10	30x30	LSA1K222MR030***
		0.20	126	84	2.20	35x25	LSA1K222MS025***
	2700	0.20	104	69	2.50	25x45	LSA1K272MQ045***
		0.20	104	69	2.50	30x35	LSA1K272MR035***
	3300	0.20	84	56	2.80	30x40	LSA1K332MR040***
		0.20	84	56	2.70	35x30	LSA1K332MS030***
	3900	0.20	72	48	3.20	30x45	LSA1K392MR045***
		0.20	72	48	3.10	35x35	LSA1K392MS035***
	4700	0.20	60	40	3.60	30x50	LSA1K472MR050***
		0.20	60	40	3.50	35x40	LSA1K472MS040***
	5600	0.20	50	33	3.90	35x45	LSA1K562MS045***
	6800	0.20	41	27	4.20	35x50	LSA1K682MS050***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
100 2A (125)	560	0.20	495	330	1.10	22x25	LSA2A561MP025***
	820	0.20	338	225	1.40	22x35	LSA2A821MP035***
		0.20	338	225	1.40	25x30	LSA2A821MQ030***
	1000	0.20	279	186	1.60	22x40	LSA2A102MP040***
		0.20	279	186	1.60	25x30	LSA2A102MQ030***
	1200	0.20	233	155	1.80	25x35	LSA2A122MQ035***
		0.20	233	155	1.70	30x25	LSA2A122MR025***
	1500	0.20	186	124	2.00	25x40	LSA2A152MQ040***
		0.20	186	124	2.00	30x30	LSA2A152MR030***
		0.20	186	124	2.10	35x25	LSA2A152MS025***
	1800	0.20	155	103	2.30	25x45	LSA2A182MQ045***
		0.20	155	103	2.30	30x35	LSA2A182MR035***
	2200	0.20	126	84	2.60	30x40	LSA2A222MR040***
		0.20	126	84	2.50	35x30	LSA2A222MS030***
	2700	0.20	104	69	3.00	30x45	LSA2A272MR045***
		0.20	104	69	2.90	35x35	LSA2A272MS035***
	3300	0.20	84	56	3.30	30x50	LSA2A332MR050***
		0.20	84	56	3.30	35x40	LSA2A332MS040***
	3900	0.20	72	48	3.70	35x45	LSA2A392MS045***
	4700	0.20	60	40	4.20	35x55	LSA2A472MS055***
160 2C (200)	330	0.15	630	420	1.20	22x25	LSA2C331MP025***
	390	0.15	533	355	1.40	22x30	LSA2C391MP030***
	470	0.15	443	295	1.50	22x35	LSA2C471MP035***
		0.15	443	295	1.60	25x30	LSA2C471MQ030***
	560	0.15	374	249	1.60	22x40	LSA2C561MP040***
		0.15	374	249	1.70	25x30	LSA2C561MQ030***
	680	0.15	308	205	1.70	22x45	LSA2C681MP045***
		0.15	308	205	1.80	25x35	LSA2C681MQ035***
		0.15	308	205	1.80	30x25	LSA2C681MR025***
	820	0.15	255	170	2.00	22x50	LSA2C821MP050***
		0.15	255	170	2.00	25x40	LSA2C821MQ040***
		0.15	255	170	2.00	30x30	LSA2C821MR030***
		0.15	255	170	2.00	35x25	LSA2C821MS025***
	1000	0.15	209	139	2.00	25x45	LSA2C102MQ045***
		0.15	209	139	2.20	30x35	LSA2C102MR035***
	1200	0.15	174	116	2.20	25x50	LSA2C122MQ050***
		0.15	174	116	2.30	30x40	LSA2C122MR040***
		0.15	174	116	2.40	35x30	LSA2C122MS030***
	1500	0.15	140	93	2.50	30x45	LSA2C152MR045***
		0.15	140	93	2.60	35x35	LSA2C152MS035***
	1800	0.15	116	77	3.00	35x45	LSA2C182MS045***
	2200	0.15	95	63	3.10	35x50	LSA2C222MS050***
	2700	0.15	77	51	3.80	35x55	LSA2C272MS055***
	3300	0.15	63	42	4.40	35x65	LSA2C332MS065***

■ LSA series 105℃ 3000 hours,miniaturization snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
200 2D (250)	220	0.15	945	630	1.10	22x25	LSA2D221MP025***
	270	0.15	773	515	1.20	22x30	LSA2D271MP030***
	330	0.15	630	420	1.30	22x30	LSA2D331MP030***
		0.15	630	420	1.40	25x25	LSA2D331MQ025***
	390	0.15	533	355	1.40	22x35	LSA2D391MP035***
	470	0.15	441	296	1.50	22x40	LSA2D471MP040***
		0.15	441	296	1.50	25x30	LSA2D471MQ030***
		0.15	441	296	1.60	30x25	LSA2D471MR025***
	560	0.15	372	249	1.60	22x45	LSA2D561MP045***
		0.15	372	249	1.70	25x35	LSA2D561MQ035***
	680	0.15	308	205	1.80	22x50	LSA2D681MP050***
		0.15	308	205	1.80	25x40	LSA2D681MQ040***
		0.15	308	205	1.80	30x30	LSA2D681MR030***
		0.15	308	205	2.00	35x25	LSA2D681MS025***
	820	0.15	255	170	2.00	30x35	LSA2D821MR035***
		0.15	255	170	2.10	35x30	LSA2D821MS030***
	1000	0.15	209	139	2.20	30x45	LSA2D102MR045***
		0.15	209	139	2.20	35x35	LSA2D102MS035***
	1200	0.15	174	116	2.20	30x50	LSA2D122MR050***
		0.15	174	116	2.50	35x40	LSA2D122MS040***
	1500	0.15	140	93	2.60	35x45	LSA2D152MS045***
	1800	0.15	116	77	2.70	35x50	LSA2D182MS050***
	2200	0.15	95	63	3.30	35x60	LSA2D222MS060***
250 2E (300)	180	0.15	1155	770	0.94	22x25	LSA2E181MP025***
	220	0.15	945	630	1.10	22x30	LSA2E221MP030***
		0.15	945	630	1.20	25x25	LSA2E221MQ025***
	270	0.15	773	515	1.20	22x35	LSA2E271MP035***
	330	0.15	633	422	1.20	22x40	LSA2E331MP040***
		0.15	633	422	1.30	25x30	LSA2E331MQ030***
		0.15	633	422	1.40	30x25	LSA2E331MR025***
	390	0.15	536	357	1.30	22x45	LSA2E391MP045***
		0.15	536	357	1.40	25x35	LSA2E391MQ035***
	470	0.15	444	296	1.40	22x50	LSA2E471MP050***
		0.15	444	296	1.50	25x40	LSA2E471MQ040***
		0.15	444	296	1.40	30x30	LSA2E471MR030***
		0.15	444	296	1.40	35x25	LSA2E471MS025***
	560	0.15	374	249	1.60	25x45	LSA2E561MQ045***
		0.15	355	249	1.60	30x35	LSA2E561MR035***
		0.15	355	249	1.60	35x30	LSA2E561MS030***
	680	0.15	293	205	1.70	25x50	LSA2E681MQ050***
		0.15	293	205	1.80	30x40	LSA2E681MR040***
	820	0.15	243	170	1.90	25x60	LSA2E821MQ060***
		0.15	243	170	1.90	30x45	LSA2E821MR045***
		0.15	243	170	1.80	35x35	LSA2E821MS035***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	1000	0.15	199	139	1.90	30x50	LSA2E102MR050***
		0.15	199	139	2.00	35x40	LSA2E102MS040***
	1200	0.15	166	116	2.10	35x45	LSA2E122MS045***
	1500	0.15	133	93	2.70	35x50	LSA2E152MS050***
	1800	0.15	111	77	3.00	35x60	LSA2E182MS060***
350 2V (400)	68	0.15	2927	1610	0.60	22x25	LSA2V680MP025***
	100	0.15	1990	1095	0.70	22x30	LSA2V101MP030***
		0.15	1990	1095	0.70	25x25	LSA2V101MQ025***
	120	0.15	1659	912	0.73	22x35	LSA2V121MP035***
	150	0.15	1327	730	0.80	22x40	LSA2V151MP040***
		0.15	1327	730	0.82	25x30	LSA2V151MQ030***
		0.15	1327	730	0.82	30x25	LSA2V151MR025***
	180	0.15	1106	608	0.81	22x45	LSA2V181MP045***
		0.15	1106	608	0.90	25x35	LSA2V181MQ035***
		0.15	1106	608	0.90	30x30	LSA2V181MR030***
	220	0.15	905	498	0.93	22x50	LSA2V221MP050***
		0.15	905	498	0.97	25x40	LSA2V221MQ040***
		0.15	905	498	0.98	35x25	LSA2V221MS025***
	270	0.15	737	406	1.10	25x50	LSA2V271MQ050***
		0.15	737	406	1.10	30x35	LSA2V271MR035***
		0.15	737	406	1.10	35x30	LSA2V271MS030***
	330	0.15	603	332	1.20	30x45	LSA2V331MR045***
		0.15	603	332	1.20	35x35	LSA2V331MS035***
	390	0.15	510	281	1.30	30x50	LSA2V391MR050***
		0.15	510	281	1.40	35x40	LSA2V391MS040***
	470	0.15	424	233	1.40	35x45	LSA2V471MS045***
	560	0.15	355	196	1.50	35x50	LSA2V561MS050***
	680	0.15	293	161	2.00	35x55	LSA2V681MS055***
	820	0.15	242	133	2.30	35x60	LSA2V821MS060***
	1000	0.15	220	110	2.60	35x60	LSA2V102MS060***
400 2G (450)	82	0.15	2430	1200	0.56	22x25	LSA2G820MP025***
	100	0.15	1995	1000	0.61	22x30	LSA2G101MP030***
		0.15	1995	1000	0.61	25x25	LSA2G101MQ025***
	120	0.15	1660	860	0.65	22x35	LSA2G121MP035***
		0.15	1660	860	0.65	25x30	LSA2G121MQ030***
		0.15	1660	860	0.71	30x25	LSA2G121MR025***
	150	0.15	1330	690	0.73	22x40	LSA2G151MP040***
		0.15	1330	690	0.73	25x30	LSA2G151MQ030***
		0.15	1330	690	0.73	30x25	LSA2G151MR025***
	180	0.15	1110	580	0.82	22x40	LSA2G181MP040***
		0.15	1110	580	0.82	25x30	LSA2G181MQ030***
		0.15	1110	580	0.82	22x45	LSA2G181MP045***
		0.15	1110	580	0.82	30x30	LSA2G181MR030***
		0.15	1110	580	0.82	35x25	LSA2G181MS025***

■ LSA series 105℃ 3000 hours,miniaturization snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	220	0.15	910	470	0.91	22x50	LSA2G221MP050***
		0.15	910	470	0.91	25x45	LSA2G221MQ045***
		0.15	910	470	0.91	30x30	LSA2G221MR030***
	270	0.15	740	380	0.96	22x60	LSA2G271MP060***
		0.15	740	380	0.96	25x45	LSA2G271MQ045***
		0.15	740	380	0.96	30x35	LSA2G271MR035***
		0.15	740	380	0.96	35x30	LSA2G271MS030***
	330	0.15	610	310	1.13	25x55	LSA2G331MQ055***
		0.15	610	310	1.13	30x40	LSA2G331MR040***
		0.15	610	310	1.13	35x35	LSA2G331MS035***
	390	0.15	515	260	1.27	22x70	LSA2G391MP070***
		0.15	515	260	1.27	25x55	LSA2G391MQ055***
		0.15	515	260	1.27	30x40	LSA2G391MR040***
		0.15	515	260	1.27	35x35	LSA2G391MS035***
	470	0.15	425	220	1.33	22x80	LSA2G471MP080***
		0.15	425	220	1.33	25x60	LSA2G471MQ060***
		0.15	425	220	1.33	30x45	LSA2G471MR045***
		0.15	425	220	1.33	30x50	LSA2G471MR050***
		0.15	425	220	1.33	35x40	LSA2G471MS040***
		0.15	425	220	1.33	35x45	LSA2G471MS045***
	560	0.15	360	185	1.52	22x90	LSA2G561MP090***
		0.15	360	185	1.52	25x70	LSA2G561MQ070***
		0.15	360	185	1.52	30x60	LSA2G561MR060***
		0.15	360	185	1.52	35x50	LSA2G561MS050***
		0.15	360	185	1.52	35x55	LSA2G561MS055***
	680	0.15	290	150	1.91	25x85	LSA2G681MQ085***
		0.15	290	150	1.91	30x70	LSA2G681MR070***
		0.15	290	150	1.91	35x45	LSA2G681MS045***
		0.15	290	150	1.91	35x50	LSA2G681MS050***
	820	0.15	240	125	2.22	25x100	LSA2G821MQ100***
		0.15	240	125	2.22	30x80	LSA2G821MR080***
		0.15	240	125	2.22	35x50	LSA2G821MS050***
		0.15	240	125	2.22	35x55	LSA2G821MS055***
		0.15	240	125	2.22	35x60	LSA2G821MS060***
	1000	0.15	200	110	2.61	30x80	LSA2G102MR080***
		0.15	200	110	2.61	30x90	LSA2G102MR090***
		0.15	200	110	2.61	35x60	LSA2G102MS060***
		0.15	200	110	2.61	35x65	LSA2G102MS065***
		0.15	200	110	2.61	35x70	LSA2G102MS070***
		0.15	200	110	2.61	35x75	LSA2G102MS075***
		0.15	200	110	2.61	40x50	LSA2G102MB050***
		0.15	200	110	2.61	40x60	LSA2G102MB060***
		0.15	200	110	2.61	45x50	LSA2G102MV050***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	1200	0.15	180	105	3.0	30x100	LSA2G122MR100***
		0.15	180	100	3.0	35x65	LSA2G122MS065***
		0.15	180	100	3.0	35x70	LSA2G122MS070***
		0.15	180	105	3.0	35x75	LSA2G122MS075***
		0.15	180	105	3.0	35x80	LSA2G122MS080***
		0.15	180	100	3.0	35x85	LSA2G122MS085***
		0.15	180	100	3.0	40x55	LSA2G122MB055***
		0.15	180	100	3.0	40x60	LSA2G122MB060***
		0.15	180	100	3.0	40x70	LSA2G122MB070***
		0.15	180	100	3.0	40x80	LSA2G122MB080***
		0.15	180	100	3.0	45x50	LSA2G122MV050***
	1500	0.15	160	90	3.5	35x80	LSA2G152MS080***
		0.15	160	90	3.5	35x85	LSA2G152MS085***
		0.15	160	90	3.5	35x90	LSA2G152MS090***
		0.15	160	90	3.5	35x95	LSA2G152MS095***
		0.15	160	90	3.5	35x100	LSA2G152MS100***
		0.15	160	90	3.5	40x80	LSA2G152MB080***
		0.15	160	90	3.5	45x70	LSA2G152MV070***
		0.15	160	90	3.5	45x75	LSA2G152MV075***
	1800	0.15	140	80	3.9	35x95	LSA2G182MS095***
		0.15	140	80	3.9	35x100	LSA2G182MS100***
		0.15	140	80	3.9	35x105	LSA2G182MS105***
		0.15	140	80	3.9	35x110	LSA2G182MS110***
		0.15	140	80	3.9	40x80	LSA2G182MB080***
		0.15	140	80	3.9	40x85	LSA2G182MB085***
		0.15	140	80	3.9	40x90	LSA2G182MB090***
		0.15	140	80	3.9	40x100	LSA2G182MB100***
		0.15	140	80	3.9	45x70	LSA2G182MV070***
	2200	0.15	120	70	4.2	40x95	LSA2G222MB095***
		0.15	120	70	4.2	40x100	LSA2G222MB100***
		0.15	120	70	4.2	40x110	LSA2G222MB110***
		0.15	120	70	4.2	45x80	LSA2G222MV080***
		0.15	120	70	4.2	45x90	LSA2G222MV090***
		0.15	120	70	4.2	45x100	LSA2G222MV100***
	2500	0.15	110	65	4.5	40x100	LSA2G252MB100***
		0.15	110	65	4.5	45x80	LSA2G252MV080***
		0.15	110	65	4.5	45x90	LSA2G252MV090***
	2700	0.15	100	60	4.8	40x105	LSA2G272MB105***
		0.15	100	60	4.8	45x85	LSA2G272MV085***
		0.15	100	60	4.8	45x90	LSA2G272MV090***
	3300	0.15	90	55	5.1	45x100	LSA2G332MV100***
		0.15	90	55	5.1	45x105	LSA2G332MV105***
		0.15	90	55	5.1	45x110	LSA2G332MV110***

■ LSA series 105℃ 3000 hours,miniaturization snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	68	0.15	3900	1950	0.57	22x30	LSA2W680MP030***
	82	0.15	3200	1610	0.68	25x35	LSA2W820MQ035***
	100	0.15	2650	1320	0.72	22x35	LSA2W101MP035***
		0.15	2650	1320	0.73	25x30	LSA2W101MQ030***
	120	0.15	2210	1100	0.75	22x40	LSA2W121MP040***
		0.15	2210	1100	0.75	25x35	LSA2W121MQ035***
		0.15	2210	1100	0.75	30x30	LSA2W121MR030***
		0.15	2210	1100	0.75	35x25	LSA2W121MS025***
	150	0.15	1760	880	0.85	22x40	LSA2W151MP040***
		0.15	1760	880	0.85	25x35	LSA2W151MQ035***
		0.15	1760	880	0.85	30x30	LSA2W151MR030***
		0.15	1760	880	0.85	35x25	LSA2W151MS025***
		0.15	1760	880	0.85	35x30	LSA2W151MS030***
	220	0.15	1200	600	0.95	25x50	LSA2W221MQ050***
		0.15	1200	600	0.95	30x40	LSA2W221MR040***
		0.15	1200	600	0.95	35x30	LSA2W221MS030***
	270	0.15	980	490	1.13	25x50	LSA2W271MQ050***
		0.15	980	490	1.13	30x40	LSA2W271MR040***
		0.15	980	490	1.13	35x35	LSA2W271MS035***
	330	0.15	800	400	1.26	25x55	LSA2W331MQ055***
		0.15	800	400	1.26	30x45	LSA2W331MR045***
		0.15	800	400	1.26	35x35	LSA2W331MS035***
	390	0.15	680	330	1.33	30x50	LSA2W391MR050***
		0.15	680	330	1.33	35x35	LSA2W391MS035***
	470	0.15	560	280	1.51	25x70	LSA2W471MQ070***
		0.15	560	280	1.51	30x50	LSA2W471MR050***
		0.15	560	280	1.51	35x45	LSA2W471MS045***
	560	0.15	470	230	1.73	25x80	LSA2W561MQ080***
		0.15	470	230	1.73	30x60	LSA2W561MR060***
		0.15	470	230	1.73	35x50	LSA2W561MS050***
	680	0.15	390	190	2.02	30x70	LSA2W681MR070***
		0.15	390	190	2.02	35x50	LSA2W681MS050***
	820	0.15	320	160	2.33	30x80	LSA2W821MR080***
		0.15	320	160	2.33	35x60	LSA2W821MS060***
	1000	0.15	300	140	2.6	30x90	LSA2W102MR090***
		0.15	300	140	2.7	35x70	LSA2W102MS070***
	1500	0.15	280	120	3.01	35x90	LSA2W152MS090***
		0.15	280	120	3.01	40x70	LSA2W152MB070***
	1800	0.15	260	120	3.35	35x110	LSA2W182MS110***
		0.15	260	120	3.35	40x90	LSA2W182MB090***
	2200	0.15	240	180	3.69	40x110	LSA2W222MB110***
		0.15	240	180	3.69	45x90	LSA2W222MV090***

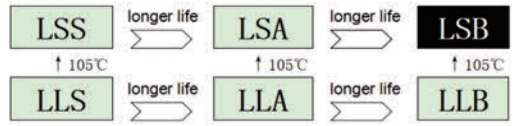
WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	68	0.15	3900	1950	0.56	22x30	LSA2H680MP030***
	82	0.15	3200	1600	0.65	25x35	LSA2H820MQ035***
	100	0.15	2500	1300	0.67	30x25	LSA2H101MR025***
	120	0.15	2200	1100	0.77	30x30	LSA2H121MR030***
		0.15	2200	1100	0.72	35x25	LSA2H121MS025***
	150	0.15	1700	880	0.85	25x40	LSA2H151MQ040***
		0.15	1700	880	0.85	30x35	LSA2H151MR035***
	180	0.15	1400	700	1.01	30x40	LSA2H181MR040***
		0.15	1400	700	1.01	35x30	LSA2H181MS030***
	220	0.15	1200	600	1.12	30x45	LSA2H221MR045***
		0.15	1200	600	1.12	35x35	LSA2H221MS035***
	270	0.15	980	450	1.29	30x50	LSA2H271MR050***
		0.15	980	450	1.28	35x40	LSA2H271MS040***
	330	0.15	800	400	1.45	30x60	LSA2H331MR060***
		0.15	800	400	1.45	35x45	LSA2H331MS045***
	390	0.15	650	330	1.41	30x70	LSA2H391MR070***
		0.15	650	330	1.41	35x50	LSA2H391MS050***
	470	0.15	560	280	1.55	30x80	LSA2H471MR080***
		0.15	560	280	1.55	35x55	LSA2H471MS055***
	560	0.15	470	230	1.7	30x90	LSA2H561MR090***
		0.15	470	230	1.7	35x65	LSA2H561MS065***
	680	0.15	390	190	2.2	30x110	LSA2H681MR110***
		0.15	390	190	2.2	35x70	LSA2H681MS070***
	820	0.15	310	160	2.6	35x80	LSA2H821MS080***
		0.15	310	160	2.6	40x70	LSA2H821MB070***
	1000	0.15	270	130	2.8	35x90	LSA2H102MS090***
		0.15	270	130	2.8	40x80	LSA2H102MB080***
550 2Y (600)	180	0.15	1470	750	1.08	30x50	LSA2Y181MR050***
		0.15	1470	750	1.08	35x35	LSA2Y181MS035***
	220	0.15	1206	600	1.20	30x55	LSA2Y221MR055***
		0.15	1206	600	1.20	35x40	LSA2Y221MS040***
	270	0.15	990	493	1.32	35x45	LSA2Y271MS045***
	330	0.15	810	425	1.48	35x50	LSA2Y331MS050***
	390	0.15	681	340	1.62	35x60	LSA2Y391MS060***
	470	0.15	560	280	1.95	35x70	LSA2Y471MS070***
	560	0.15	473	237	2.10	35x80	LSA2Y561MS080***
		0.15	473	237	2.10	40x70	LSA2Y561MB070***
	680	0.15	500	395	2.40	35x80	LSA2Y681MS080***
		0.15	500	395	2.40	40x60	LSA2Y681MB060***
	820	0.15	460	351	2.60	35x100	LSA2Y821MS100***
		0.15	460	351	2.60	40x80	LSA2Y821MB080***
	1000	0.15	400	305	2.80	45x80	LSA2Y102MV080***

*** Indicates terminal type, length, and sleeve color.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LSB series 105℃ 5000 hours





- **Rohs requirements**
- **105℃ 5000 hours,miniaturization series**
- **Used for switching power supply, servo, inverter,air conditioners,consumer electronics, and printed circuit boards and other general industrial products**

■ Product description

Item	Characteristic											
Operating temperature range	-40℃ ~ +105℃						-25℃ ~ +105℃					
Rated voltage(WV/V)	10V ~ 450V						460V ~ 550V					
Capacitance(CAP/C)	47 ~ 56000μF											
Tolerance(CAP/C)	±20% (25℃, 120Hz)											
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)											
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	10	16	25	35	50	63	80	100	120	160-400	450-550
	DF	0.55	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.20	0.15	0.15
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)		10 ~ 100				160 ~ 250				315 ~ 550	
	Z(-25℃/Z(+25℃)		4				3				8	
	Z(-40℃/Z(+25℃)		15				-				-	
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6											
	C(-25℃/C(+25℃)≥0.7											

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	7000h	>200000h	5000h	3000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

■ Ripple current correction factor

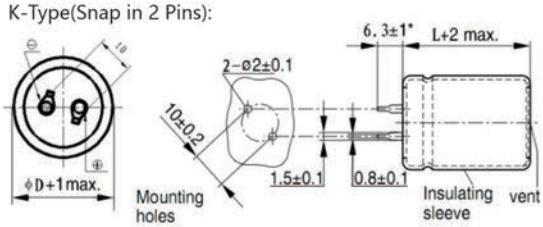
Temp.℃ / Coefficient	40	55	85	105
<160	2.1	1.8	1.5	1.0
≥160	2.7	2.5	1.7	1.0

Freq.	50/60Hz	120Hz	500Hz	1KHz	≥10KHz
10-100	0.90	1.00	1.10	1.15	1.15
160-250	0.80	1.00	1.20	1.30	1.50
≥315	0.80	1.00	1.20	1.30	1.45

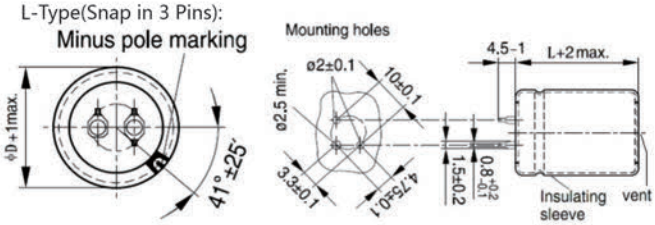
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

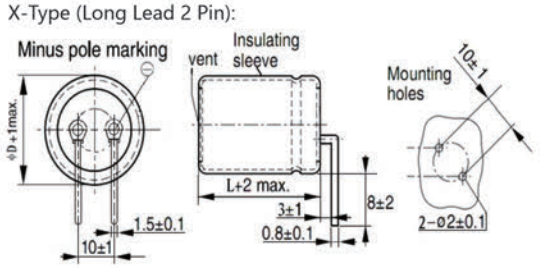
K-Type(Snap in 2 Pins):



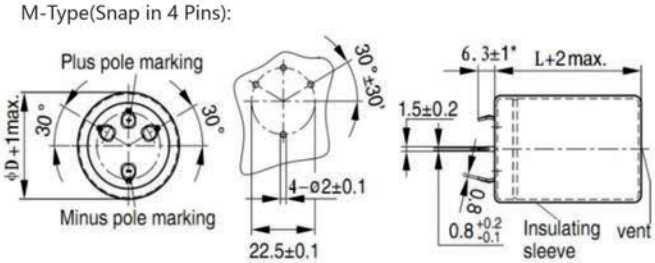
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LSB series 105℃ 5000 hours,miniaturization snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
10 1A (13)	8200	0.55	87	60	1.4	22x25	LSB1A822MP025***
	10000	0.55	71	49	1.7	22x30	LSB1A103MP030***
	12000	0.55	60	42	1.9	22x35	LSB1A123MP035***
		0.55	60	42	1.8	25x25	LSB1A123MQ025***
	15000	0.55	47	32	2.1	22x40	LSB1A153MP040***
		0.55	47	32	2.1	25x30	LSB1A153MQ030***
		0.55	47	32	2.1	30x25	LSB1A153MR025***
	18000	0.55	40	27	2.4	22x45	LSB1A183MP045***
		0.55	40	27	2.3	25x35	LSB1A183MQ035***
	22000	0.55	30	20	2.6	25x40	LSB1A223MQ040***
		0.55	30	20	2.7	30x30	LSB1A223MR030***
	27000	0.55	25	17	3.0	25x45	LSB1A273MQ045***
		0.55	25	17	3.1	30x35	LSB1A273MR035***
		0.55	25	17	3.0	35x30	LSB1A273MS030***
	33000	0.55	20	14	3.4	25x50	LSB1A333MQ050***
		0.55	20	14	3.5	30x40	LSB1A333MR040***
		0.55	20	14	3.5	35x35	LSB1A333MS035***
	39000	0.55	17	11	3.8	30x45	LSB1A393MR045***
		0.55	17	11	4.0	35x40	LSB1A393MS040***
	47000	0.55	15	10	4.6	30x50	LSB1A473MR050***
		0.55	15	10	4.6	35x45	LSB1A473MS045***
	56000	0.55	12	7	5.1	35x50	LSB1A563MS050***
16 1C (20)	5600	0.50	117	81	1.5	22x25	LSB1C562MP025***
	6800	0.50	96	66	1.7	22x30	LSB1C682MP030***
	8200	0.50	80	56	1.7	25x25	LSB1C822MQ025***
	10000	0.50	65	45	2.1	22x35	LSB1C103MP035***
		0.50	65	45	2.1	25x30	LSB1C103MQ030***
	12000	0.50	53	37	2.4	22x40	LSB1C123MP040***
		0.50	53	37	2.4	25x35	LSB1C123MQ035***
		0.50	53	37	2.3	30x25	LSB1C123MR025***
	15000	0.50	42	30	2.7	22x45	LSB1C153MP045***
		0.50	42	30	2.7	25x40	LSB1C153MQ040***
		0.50	42	30	2.6	30x30	LSB1C153MR030***
	18000	0.50	35	24	3.1	25x45	LSB1C183MQ045***
		0.50	35	24	3.0	30x35	LSB1C183MR035***
		0.50	35	24	3.1	35x30	LSB1C183MS030***
	22000	0.50	28	20	3.4	25x50	LSB1C223MQ050***
		0.50	28	20	3.5	30x40	LSB1C223MR040***
	27000	0.50	23	15	3.9	30x45	LSB1C273MR045***
		0.50	23	15	3.9	35x35	LSB1C273MS035***
	33000	0.50	19	13	4.3	30x50	LSB1C333MR050***
		0.50	19	13	4.3	35x40	LSB1C333MS040***
	39000	0.50	15	10	5.0	35x45	LSB1C393MS045***
	47000	0.50	12	8	5.5	35x50	LSB1C473MS050***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
25 1E (32)	3900	0.45	151	105	1.3	22x25	LSB1E392MP025***
	4700	0.45	125	87	1.6	22x30	LSB1E472MP030***
	5600	0.45	105	73	1.8	22x35	LSB1E562MP035***
		0.45	105	73	1.8	25x25	LSB1E562MQ025***
	6800	0.45	86	60	2.0	22x40	LSB1E682MP040***
		0.45	86	60	1.9	25x30	LSB1E682MQ030***
	8200	0.45	72	50	2.3	22x45	LSB1E822MP045***
		0.45	72	50	2.2	25x35	LSB1E822MQ035***
		0.45	72	50	2.2	30x25	LSB1E822MR025***
	10000	0.45	58	40	2.6	22x50	LSB1E103MP050***
		0.45	58	40	2.5	25x40	LSB1E103MQ040***
		0.45	58	40	2.4	30x30	LSB1E103MR030***
	12000	0.45	48	33	2.8	25x45	LSB1E123MQ045***
		0.45	48	33	2.7	30x35	LSB1E123MR035***
		0.45	48	33	2.8	35x30	LSB1E123MS030***
	15000	0.45	38	27	3.1	30x40	LSB1E153MR040***
	18000	0.45	30	21	3.5	30x45	LSB1E183MR045***
		0.45	30	21	3.5	35x35	LSB1E183MS035***
	22000	0.45	25	17	3.9	30x50	LSB1E223MR050***
		0.45	25	17	4.0	35x40	LSB1E223MS040***
	27000	0.45	20	15	4.7	35x50	LSB1E273MS050***
35 1V (44)	2700	0.40	195	136	1.3	22x25	LSB1V272MP025***
	3300	0.40	160	111	1.5	22x30	LSB1V332MP030***
	3900	0.40	135	94	1.8	22x35	LSB1V392MP035***
		0.40	135	94	1.8	25x25	LSB1V392MQ025***
	4700	0.40	111	77	2.0	22x40	LSB1V472MP040***
		0.40	111	77	2.0	25x30	LSB1V472MQ030***
	5600	0.40	93	65	2.3	22x45	LSB1V562MP045***
		0.40	93	65	2.2	25x35	LSB1V562MQ035***
		0.40	93	65	2.1	30x25	LSB1V562MR025***
	6800	0.40	76	53	2.5	22x50	LSB1V682MP050***
		0.40	76	53	2.5	25x40	LSB1V682MQ040***
		0.40	76	53	2.3	30x30	LSB1V682MR030***
	8200	0.40	63	43	2.8	25x45	LSB1V822MQ045***
		0.40	63	43	2.7	30x35	LSB1V822MR035***
	10000	0.40	51	35	3.0	30x40	LSB1V103MR040***
		0.40	51	35	2.8	35x30	LSB1V103MS030***
	12000	0.40	42	30	3.4	30x45	LSB1V123MR045***
		0.40	42	30	3.3	35x35	LSB1V123MS035***
	15000	0.40	33	23	4.0	35x40	LSB1V153MS040***
	18000	0.40	29	20	4.4	35x45	LSB1V183MS045***

■ LSB series 105℃ 5000 hours,miniaturization snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
50 1H (63)	1500	0.35	308	215	1.2	22x25	LSB1H152MP025***
	2200	0.35	210	147	1.5	22x30	LSB1H222MP030***
		0.35	210	147	1.5	25x25	LSB1H222MQ025***
	2700	0.35	170	119	1.8	22x35	LSB1H272MP035***
		0.35	170	119	1.8	25x30	LSB1H272MQ030***
	3300	0.35	140	98	2.0	22x40	LSB1H332MP040***
		0.35	140	98	1.9	30x25	LSB1H332MR025***
	3900	0.35	117	81	2.3	22x45	LSB1H392MP045***
		0.35	117	81	2.2	25x35	LSB1H392MQ035***
		0.35	117	81	2.2	30x30	LSB1H392MR030***
	4700	0.35	97	67	2.4	25x40	LSB1H472MQ040***
	5600	0.35	81	56	2.7	25x45	LSB1H562MQ045***
		0.35	81	56	2.6	30x35	LSB1H562MR035***
		0.35	81	56	2.4	35x30	LSB1H562MS030***
	6800	0.35	66	46	3.0	30x40	LSB1H682MR040***
		0.35	66	46	3.0	35x35	LSB1H682MS035***
	8200	0.35	55	38	3.6	30x50	LSB1H822MR050***
		0.35	55	38	3.4	35x40	LSB1H822MS040***
	10000	0.35	43	30	3.8	35x45	LSB1H103MS045***
	12000	0.35	37	25	4.1	35x50	LSB1H123MS050***
63 1J (79)	1000	0.30	396	277	1.1	22x25	LSB1J102MP025***
	1500	0.30	263	185	1.4	22x30	LSB1J152MP030***
		0.30	263	185	1.4	25x25	LSB1J152MQ025***
	1800	0.30	220	153	1.6	22x35	LSB1J182MP035***
		0.30	220	153	1.6	25x30	LSB1J182MQ030***
	2200	0.30	180	125	1.9	22x40	LSB1J222MP040***
		0.30	180	125	1.8	30x25	LSB1J222MR025***
	2700	0.30	145	101	2.1	22x45	LSB1J272MP045***
		0.30	145	101	2.0	25x35	LSB1J272MQ035***
		0.30	145	101	2.0	30x30	LSB1J272MR030***
	3300	0.30	120	82	2.3	25x40	LSB1J332MQ040***
	3900	0.30	101	70	2.6	25x45	LSB1J392MQ045***
		0.30	101	70	2.5	30x35	LSB1J392MR035***
		0.30	101	70	2.3	35x30	LSB1J392MS030***
	4700	0.30	83	57	2.8	30x40	LSB1J472MR040***
		0.30	83	57	2.8	35x35	LSB1J472MS035***
	5600	0.30	70	49	3.2	30x45	LSB1J562MR045***
		0.30	70	49	3.2	35x40	LSB1J562MS040***
	6800	0.30	57	40	3.6	35x45	LSB1J682MS045***
	8200	0.30	47	33	3.9	35x50	LSB1J822MS050***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
80 1K (100)	820	0.25	403	280	1.1	22x25	LSB1K821MP025***
	1000	0.25	330	230	1.3	22x30	LSB1K102MP030***
	1200	0.25	275	193	1.5	22x35	LSB1K122MP035***
		0.25	275	193	1.4	25x25	LSB1K122MQ025***
	1500	0.25	220	153	1.7	22x40	LSB1K152MP040***
		0.25	220	153	1.7	25x30	LSB1K152MQ030***
		0.25	220	153	1.8	30x25	LSB1K152MR025***
	1800	0.25	182	127	1.9	22x45	LSB1K182MP045***
		0.25	182	127	1.9	25x35	LSB1K182MQ035***
	2200	0.25	150	105	1.9	22x45	LSB1K222MP045***
		0.25	150	105	1.9	25x35	LSB1K222MQ035***
	2700	0.25	121	85	2.5	30x35	LSB1K272MR035***
		0.25	121	85	2.5	35x30	LSB1K272MS030***
	3300	0.25	100	68	2.7	30x40	LSB1K332MR040***
		0.25	100	68	2.6	35x35	LSB1K332MS035***
	3900	0.25	83	58	2.9	30x45	LSB1K392MR045***
		0.25	83	58	3.0	35x40	LSB1K392MS040***
	4700	0.25	70	48	3.4	35x45	LSB1K472MS045***
	5600	0.25	58	41	3.7	35x50	LSB1K562MS050***
100 2A (125)	560	0.20	472	330	1.0	22x25	LSB2A561MP025***
	680	0.20	388	271	1.2	22x30	LSB2A681MP030***
	820	0.20	322	225	1.3	22x35	LSB2A821MP035***
		0.20	322	225	13	25x25	LSB2A821MQ025***
	1000	0.20	263	185	1.6	22x40	LSB2A102MP040***
		0.20	263	185	1.5	25x30	LSB2A102MQ030***
		0.20	263	185	1.5	30x25	LSB2A102MR025***
	1200	0.20	220	153	1.8	22x45	LSB2A122MP045***
		0.20	220	153	1.8	25x35	LSB2A122MQ035***
		0.20	220	153	1.8	30x30	LSB2A122MR030***
	1500	0.20	175	122	2.0	22x50	LSB2A152MP050***
		0.20	175	122	2.0	25x40	LSB2A152MQ040***
	1800	0.20	145	101	2.3	25x45	LSB2A182MQ045***
		0.20	145	101	2.2	30x35	LSB2A182MR035***
		0.20	145	101	2.2	35x30	LSB2A182MS030***
	2200	0.20	120	82	2.5	30x40	LSB2A222MR040***
		0.20	120	82	2.5	35x35	LSB2A222MS035***
	2700	0.20	97	68	2.9	30x45	LSB2A272MR045***
		0.20	97	68	2.9	35x40	LSB2A272MS040***
	3300	0.20	78	55	3.3	35x45	LSB2A332MS045***
	3900	0.20	66	46	3.6	35x50	LSB2A392MS050***

■ LSB series 105℃ 5000 hours,miniaturization snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
160 2C (200)	220	0.15	903	631	0.6	22x25	LSB2C221KP025***
	270	0.15	735	515	0.8	22x30	LSB2C271KP030***
	330	0.15	601	420	0.9	22x35	LSB2C331KP035***
		0.15	601	420	0.8	25x25	LSB2C311KQ025***
	390	0.15	508	355	1.0	25x30	LSB2C391KQ030***
		0.15	508	355	1.0	30x25	LSB2C391KR025***
	470	0.15	422	295	1.1	22x40	LSB2C471KP040***
		0.15	422	295	1.1	25x35	LSB2C471KQ035***
		0.15	422	295	1.2	30x30	LSB2C471KR030***
	560	0.15	353	246	1.3	22x45	LSB2C561KP045***
	680	0.15	291	203	1.4	22x50	LSB2C681KP050***
		0.15	291	203	1.4	25x40	LSB2C681KQ040***
		0.15	291	203	1.5	30x35	LSB2C681KR035***
	820	0.15	242	168	1.6	25x45	LSB2C821KQ045***
		0.15	242	168	1.7	30x40	LSB2C821KR040***
		0.15	242	168	1.6	35x30	LSB2C821KS030***
	1000	0.15	197	137	1.9	30x45	LSB2C102KR045***
		0.15	197	137	1.9	35x35	LSB2C102KS035***
	1200	0.15	165	115	2.2	30x50	LSB2C122KR050***
		0.15	165	115	2.2	35x40	LSB2C122KS040***
	1500	0.15	131	91	2.6	35x45	LSB2C152KS045***
	1800	0.15	110	75	3.0	35x50	LSB2C182KS050***
180 2K (225)	220	0.15	903	631	0.6	22x25	LSB2K221KP025***
	270	0.15	735	515	0.8	22x30	LSB2K271KP030***
		0.15	735	515	0.8	25x25	LSB2K271KQ025***
	330	0.15	601	420	0.9	22x35	LSB2K331KP035***
		0.15	601	420	0.9	25x30	LSB2K331KQ030***
	390	0.15	509	355	1.0	22x40	LSB2K391KP040***
		0.15	509	355	1.1	25x35	LSB2K391KQ035***
		0.15	509	355	1.0	30x25	LSB2K391KR025***
	470	0.15	422	295	1.2	22x45	LSB2K471KP045***
		0.15	422	295	1.2	30x30	LSB2K471KR030***
	560	0.15	353	247	1.3	22x50	LSB2K561KP050***
		0.15	353	247	1.3	25x40	LSB2K561KQ040***
		0.15	353	247	1.3	30x35	LSB2K561KR035***
	680	0.15	291	203	1.5	25x45	LSB2K681KQ045***
		0.15	291	203	1.5	35x30	LSB2K681KS030***
	820	0.15	242	168	1.7	25x50	LSB2K821KQ050***
		0.15	242	168	1.7	30x40	LSB2K821KR040***
		0.15	242	168	1.8	35x35	LSB2K821KS035***
	1000	0.15	197	137	2.0	30x45	LSB2K102KR045***
		0.15	197	137	2.1	35x40	LSB2K102KS040***
	1200	0.15	165	115	2.3	30x50	LSB2K122KR050***
		0.15	165	115	2.2	35x45	LSB2K122KS045***
	1500	0.15	131	91	2.8	35x50	LSB2K152KS050***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
200 2D (250)	180	0.15	1104	772	0.6	22x25	LSB2D181MP025***
	220	0.15	903	631	0.7	22x30	LSB2D221MP030***
	270	0.15	735	515	0.8	22x35	LSB2D271MP035***
		0.15	735	515	0.8	25x25	LSB2D271MQ025***
	330	0.15	601	420	1.0	22x40	LSB2D331MP040***
		0.15	601	420	0.9	25x30	LSB2D331MQ030***
	390	0.15	508	355	1.1	25x35	LSB2D391MQ035***
		0.15	508	355	1.0	30x25	LSB2D391MR025***
	470	0.15	422	295	1.2	22x45	LSB2D471MP045***
		0.15	422	295	1.2	25x40	LSB2D471MQ040***
		0.15	422	295	1.2	30x30	LSB2D471MR030***
	560	0.15	353	247	1.4	25x45	LSB2D561MQ045***
		0.15	353	247	1.4	30x35	LSB2D561MR035***
	680	0.15	291	203	1.6	25x50	LSB2D681MQ050***
		0.15	291	203	1.6	30x40	LSB2D681MR040***
		0.15	291	203	1.5	35x30	LSB2D681MS030***
	820	0.15	241	168	1.9	30x45	LSB2D821MR045***
		0.15	241	168	1.8	35x35	LSB2D821MS035***
	1000	0.15	197	137	2.1	30x50	LSB2D102MR050***
		0.15	197	137	2.1	35x40	LSB2D102MS040***
	1200	0.15	165	115	2.4	35x45	LSB2D122MS045***
	1500	0.15	131	91	2.8	35x50	LSB2D152MS050***
250 2E (300)	150	0.15	1325	927	0.5	22x25	LSB2E151MP025***
	180	0.15	1105	772	0.6	22x30	LSB2E181MP030***
		0.15	1105	772	0.6	25x25	LSB2E181MQ025***
	220	0.15	903	631	0.8	22x35	LSB2E221MP035***
		0.15	903	631	0.8	25x30	LSB2E221MQ030***
	270	0.15	735	515	0.9	22x40	LSB2E271MP040***
		0.15	735	515	0.9	25x35	LSB2E271MQ035***
		0.15	735	515	0.9	30x25	LSB2E271MR025***
	330	0.15	601	420	1.0	22x45	LSB2E331MP045***
		0.15	601	420	1.0	30x30	LSB2E331MR030***
	390	0.15	509	355	1.1	22x50	LSB2E391MP050***
		0.15	509	355	1.1	25x40	LSB2E391MQ040***
		0.15	509	355	1.2	30x35	LSB2E391MR035***
	470	0.15	424	295	1.3	25x45	LSB2E471MQ045***
		0.15	424	295	1.2	35x30	LSB2E471MS030***
	560	0.15	353	247	1.5	25x50	LSB2E561MQ050***
		0.15	353	247	1.5	30x40	LSB2E561MR040***
		0.15	353	247	1.5	35x35	LSB2E561MS035***
	680	0.15	291	203	1.7	30x45	LSB2E681MR045***
		0.15	291	203	1.7	35x40	LSB2E681MS040***
	820	0.15	241	168	2.0	30x50	LSB2E821MR050***
	1000	0.15	198	137	2.2	35x45	LSB2E102MS045***
	1200	0.15	153	111	2.4	35x50	LSB2E122MS050***

■ LSB series 105℃ 5000 hours,miniaturization snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
315 2F (365)	68	0.15	3901	2730	0.3	22x25	LSB2F680MP025***
	82	0.15	3235	2265	0.4	22x30	LSB2F820MP030***
	100	0.15	2653	1856	0.4	25x25	LSB2F101MQ025***
	120	0.15	2211	1547	0.5	22x35	LSB2F121MP035***
		0.15	2211	1547	0.5	25x30	LSB2F121MQ030***
	150	0.15	1768	1237	0.6	22x40	LSB2F151MP040***
		0.15	1768	1237	0.5	30x25	LSB2F151MR025***
	180	0.15	1473	1030	0.6	22x45	LSB2F181MP045***
		0.15	1473	1030	0.6	25x35	LSB2F181MQ035***
		0.15	1473	1030	0.6	30x30	LSB2F181MR030***
	220	0.15	1205	842	0.7	22x50	LSB2F221MP050***
		0.15	1205	842	0.7	25x40	LSB2F221MQ040***
		0.15	1205	842	0.7	30x35	LSB2F221MR035***
	270	0.15	981	686	0.8	25x45	LSB2F271MQ045***
		0.15	981	686	0.9	30x40	LSB2F271MR040***
		0.15	981	686	0.8	35x30	LSB2F271MS030***
	330	0.15	803	561	0.9	25x50	LSB2F331MQ050***
		0.15	803	561	0.9	35x35	LSB2F331MS035***
	390	0.15	680	475	1.0	30x45	LSB2F391MR045***
		0.15	680	475	1.0	35x40	LSB2F391MS040***
	470	0.15	563	393	1.2	30x50	LSB2F471MR050***
		0.15	563	393	1.2	35x45	LSB2F471MS045***
	560	0.15	471	331	1.3	35x50	LSB2F561MS050***
350 2V (400)	68	0.15	3901	2730	0.35	22x25	LSB2V680MP025***
	82	0.15	3235	2265	0.4	22x30	LSB2V820MP030***
	100	0.15	2653	1857	0.5	25x25	LSB2V101MQ025***
	120	0.15	2211	1547	0.5	22x35	LSB2V121MP035***
		0.15	2211	1547	0.5	25x30	LSB2V121MQ030***
		0.15	2211	1547	0.5	30x25	LSB2V121MR025***
	150	0.15	1768	1237	0.6	22x40	LSB2V151MP040***
		0.15	1768	1237	0.6	25x35	LSB2V151MQ035***
	180	0.15	1473	1031	0.7	25x35	LSB2V181MQ035***
		0.15	1473	1031	0.7	25x40	LSB2V181MQ040***
		0.15	1473	1031	0.7	30x30	LSB2V181MR030***
	220	0.15	1205	842	0.8	22x50	LSB2V221MP050***
		0.15	1205	842	0.8	25x45	LSB2V221MQ045***
		0.15	1205	842	0.8	30x35	LSB2V221MR035***
	270	0.15	982	686	0.9	25x50	LSB2V271MQ050***
		0.15	982	686	0.9	30x40	LSB2V271MR040***
		0.15	982	686	0.9	35x30	LSB2V271MS030***
	330	0.15	803	561	1.1	30x45	LSB2V331MR045***
		0.15	803	561	1.0	35x35	LSB2V331MS035***
	390	0.15	680	474	1.2	30x50	LSB2V391MR050***
		0.15	680	474	1.1	35x40	LSB2V391MS040***
	470	0.15	565	394	1.3	35x45	LSB2V471MS045***
	560	0.15	472	330	1.4	35x50	LSB2V561MS050***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	68	0.15	3901	2731	0.4	22x30	LSB2G680MP030***
	82	0.15	3235	2265	0.4	25x25	LSB2G820MQ025***
	100	0.15	2653	1856	0.5	22x35	LSB2G101MP035***
		0.15	2653	1856	0.5	25x30	LSB2G101MQ030***
		0.15	2653	1856	0.5	30x25	LSB2G101MR025***
	120	0.15	2211	1547	0.5	22x40	LSB2G121MP040***
		0.15	2211	1547	0.6	25x35	LSB2G121MQ035***
		0.15	2211	1547	0.6	30x30	LSB2G121MR030***
	150	0.15	1767	1237	0.6	22x50	LSB2G151MP050***
		0.15	1767	1237	0.7	25x40	LSB2G151MQ040***
	180	0.15	1473	1031	0.8	25x45	LSB2G181MQ045***
		0.15	1473	1031	0.8	30x35	LSB2G181MR035***
	220	0.15	1205	843	0.8	25x50	LSB2G221MQ050***
		0.15	1205	843	0.9	30x40	LSB2G221MR040***
		0.15	1205	843	0.9	35x30	LSB2G221MS030***
	270	0.15	981	686	1.0	30x45	LSB2G271MR045***
		0.15	981	686	1.0	35x35	LSB2G271MS035***
	330	0.15	802	561	1.1	30x50	LSB2G331MR050***
		0.15	802	561	1.1	35x40	LSB2G331MS040***
	390	0.15	680	475	1.3	35x45	LSB2G391MS045***
	470	0.15	565	393	1.3	35x50	LSB2G471MS050***
450 2W (500)	68	0.15	3901	2730	0.4	22x30	LSB2W680MP030***
	82	0.15	3235	2265	0.4	22x35	LSB2W820MP035***
		0.15	3235	2265	0.5	25x30	LSB2W820MQ030***
		0.15	3235	2265	0.5	30x25	LSB2W820MR025***
	100	0.15	2653	1857	0.5	22x40	LSB2W101MP040***
		0.15	2653	1857	0.5	25x35	LSB2W101MQ035***
	120	0.15	2211	1547	0.6	22x50	LSB2W121MP050***
		0.15	2211	1547	0.6	25x40	LSB2W121MQ040***
		0.15	2211	1547	0.6	30x30	LSB2W121MR030***
	150	0.15	1768	1237	0.7	25x45	LSB2W151MQ045***
		0.15	1768	1237	0.7	30x35	LSB2W151MR035***
	180	0.15	1473	1031	0.7	25x50	LSB2W181MQ050***
		0.15	1473	1031	0.8	30x40	LSB2W181MR040***
		0.15	1473	1031	0.8	35x30	LSB2W181MS030***
	220	0.15	1205	843	0.9	30x45	LSB2W221MR045***
		0.15	1205	843	0.9	35x35	LSB2W221MS035***
	270	0.15	981	686	1.0	30x50	LSB2W271MR050***
		0.15	981	686	1.0	35x40	LSB2W271MS040***
	330	0.15	802	561	1.2	35x45	LSB2W331MS045***
	390	0.15	680	475	1.3	35x50	LSB2W391MS050***
	470	0.15	563	392	1.5	35x55	LSB2W471MS055***

■ LSB series 105℃ 5000 hours,miniaturization snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	47	0.15	5645	2821	0.4	22x30	LSB2H470MP030***
	56	0.15	4737	2369	0.5	22x30	LSB2H560MP030***
	68	0.15	3901	1950	0.5	22x35	LSB2H680MP035***
		0.15	3901	1950	0.5	25x30	LSB2H680MQ030***
	82	0.15	3235	1617	0.6	22x40	LSB2H820MP040***
		0.15	3235	1617	0.6	25x35	LSB2H820MQ035***
	100	0.15	2652	1325	0.7	22x45	LSB2H101MP045***
		0.15	2652	1325	0.7	25x40	LSB2H101MQ040***
		0.15	2652	1325	0.7	30x30	LSB2H101MR030***
	120	0.15	2211	1105	0.8	22x50	LSB2H121MP050***
		0.15	2211	1105	0.7	25x40	LSB2H121MQ040***
		0.15	2211	1105	0.8	30x35	LSB2H121MR035***
		0.15	2211	1105	0.8	35x30	LSB2H121MS030***
	150	0.15	1767	883	0.8	25x45	LSB2H151MQ045***
		0.15	1767	883	0.8	30x40	LSB2H151MR040***
		0.15	1767	883	0.7	35x30	LSB2H151MS030***
		0.15	1767	883	0.9	35x35	LSB2H151MS035***
	180	0.15	1473	735	1.0	25x50	LSB2H181MQ050***
		0.15	1473	735	1.0	30x45	LSB2H181MR045***
	220	0.15	1205	601	1.1	30x50	LSB2H221MR050***
		0.15	1205	601	1.0	35x35	LSB2H221MS035***
		0.15	1205	601	1.1	35x40	LSB2H221MS040***
	270	0.15	981	490	1.3	30x50	LSB2H271MR050***
		0.15	981	490	1.3	35x40	LSB2H271MS040***
	330	0.15	802	401	1.4	35x45	LSB2H331MS045***
	390	0.15	680	339	1.5	35x50	LSB2H391MS050***
	470	0.15	565	280	1.7	35x60	LSB2H471MS060***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
550 2Y (600)	150	0.15	1767	883	0.9	25x50	LSB2Y151MQ050***
		0.15	1767	883	0.9	30x40	LSB2Y151MR040***
	180	0.15	1473	730	1.0	30x50	LSB2Y181MR050***
		0.15	1473	730	1.0	35x35	LSB2Y181MS035***
	220	0.15	1205	600	1.1	30x55	LSB2Y221MR055***
		0.15	1205	60	1.1	35x40	LSB2Y221MS040***
	270	0.15	981	490	1.3	30x60	LSB2Y271MR060***
		0.15	981	490	1.3	35x45	LSB2Y271MS045***
	330	0.15	802	401	1.5	30x65	LSB2Y331MR065***
		0.15	802	401	1.5	35x50	LSB2Y331MS050***
	390	0.15	680	339	1.7	30x70	LSB2Y391MR070***
		0.15	680	339	1.7	35x60	LSB2Y391MS060***
	470	0.15	565	280	1.9	30x90	LSB2Y471MR090***
		0.15	565	280	1.9	35x60	LSB2Y471MS060***
	560	0.15	470	230	2.1	30x100	LSB2Y561MR100***
		0.15	470	230	2.1	35x70	LSB2Y561MS070***

*** Indicates terminal type, length, and sleeve color.

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LTA series 85℃ 3000 hours

LTA → 105℃ → LDA



- **Rohs requirements**
- **85℃ 3000 hours low temperature products**
- **Used for industrial power supplies, inverters and other industrial products**

■ Product description

Item	Characteristic	
Operating temperature range	-40℃ ~ +85℃	
Rated voltage(WV/V)	500V	
Capacitance(CAP/C)	180 ~ 1500μF	
Tolerance(CAP/C)	±20% (25℃, 120Hz)	
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)	
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	500V
	DF	0.15
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	500
	Z(-25℃/Z(+25℃)	8
	Z(-40℃/Z(+25℃)	16
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6	
	C(-25℃/C(+25℃)≥0.7	

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	5000h	>20000h	3000h	3000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

■ Ripple current correction factor

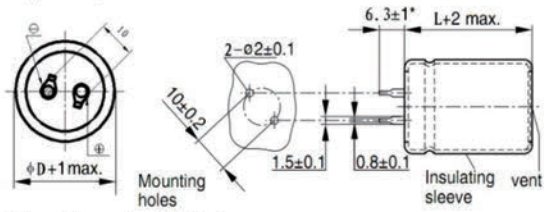
Temp.℃	40	55	70	85
Coefficient	1.7	1.5	1.3	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.16	1.30	1.40

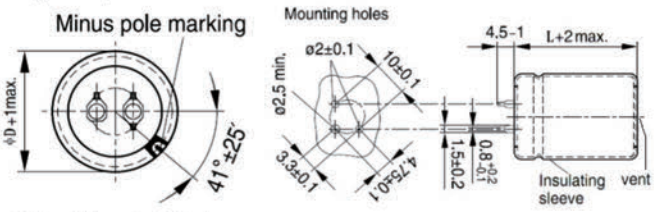
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

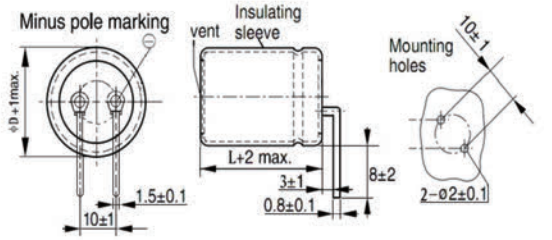
K-Type(Snap in 2 Pins):



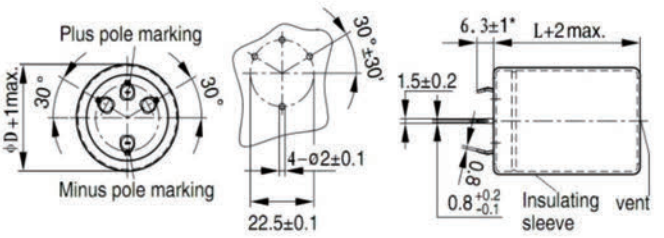
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LTA series:85℃ 3000 hour,low temperature products

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	180	0.15	1100	620	1.15	30x45	LTA2H181MR045**
	220	0.15	900	510	1.3	30x50	LTA2H221MR050**
	270	0.15	730	410	1.55	30x60	LTA2H271MR060**
		0.15	730	410	1.55	35x45	LTA2H271MS045**
	330	0.15	600	340	1.75	30x70	LTA2H331MR070**
		0.15	600	340	1.75	35x50	LTA2H331MS050**
		0.15	600	340	1.75	40x45	LTA2H331MB045**
	390	0.15	510	280	1.95	30x85	LTA2H391MR085**
		0.15	510	280	1.95	35x60	LTA2H391MS060**
		0.15	510	280	1.95	40x55	LTA2H391MB055**
	470	0.15	420	240	2.15	35x70	LTA2H471MS070**
		0.15	420	240	2.15	40x60	LTA2H471MB060**
		0.15	420	240	2.15	45x50	LTA2H471MV050**
	560	0.15	350	200	2.4	35x80	LTA2H561MS080**
		0.15	350	200	2.4	40x70	LTA2H561MB070**
		0.15	350	200	2.4	45x55	LTA2H561MV055**
	680	0.15	290	160	2.72	35x95	LTA2H681MS095**
		0.15	290	160	2.72	40x80	LTA2H681MB080**
		0.15	290	160	2.72	45x65	LTA2H681MV065**
	820	0.15	240	130	3.05	40x100	LTA2H821MB100**
		0.15	240	130	3.05	45x75	LTA2H821MV075**
	1000	0.15	190	110	3.2	45x90	LTA2H102MV090**
		0.15	190	110	3.2	50x75	LTA2H102MJ075**
	1200	0.15	160	90	3.35	45x105	LTA2H122MV105**
		0.15	160	90	3.35	50x85	LTA2H122MJ085**
	1500	0.15	130	75	3.5	50x100	LTA2H152MJ100**

*** Indicates terminal type, length, and sleeve color.
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LDA series 105℃ 3000 hours

LTA → 105℃ → LDA



- **Rohs requirements**
- **105℃ 3000 hours products**
- **Used in photovoltaic, solar energy, inverter and other industrial products**

■ Product description

Item	Characteristic	
Operating temperature range	-40℃ ~ +105℃	
Rated voltage(WV/V)	500V	
Capacitance(CAP/C)	390 ~ 1800μF	
Tolerance(CAP/C)	±20% (25℃, 120Hz)	
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)	
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	500V
	DF	0.15
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	500
	Z(-25℃/Z(+25℃)	8
	Z(-40℃/Z(+25℃)	16
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6	
	C(-25℃/C(+25℃)≥0.7	

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	5000h	>20000h	3000h	3000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

■ Ripple current correction factor

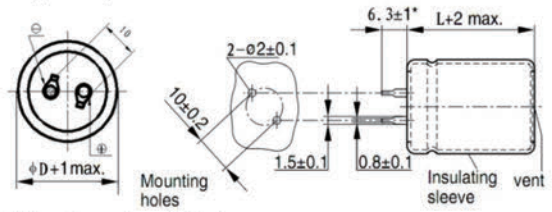
Temp.℃	40	55	85	105
Coefficient	3.0	2.8	2.0	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.16	1.30	1.40

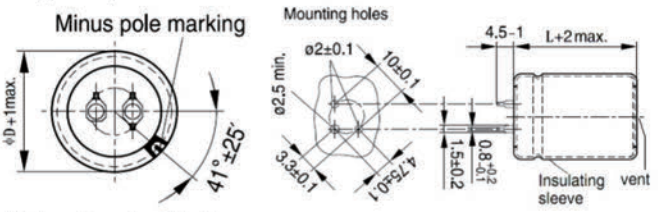
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

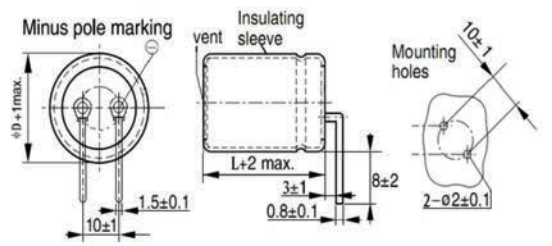
K-Type(Snap in 2 Pins):



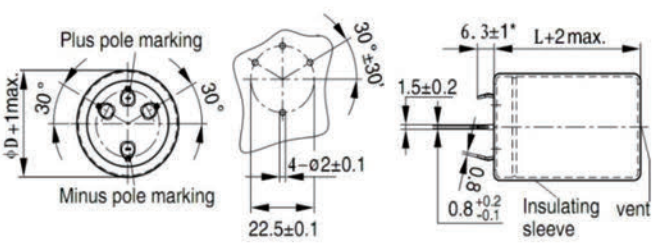
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LDA series:105℃ 3000 hours products

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	390	0.15	509	224	1.5	35x50	LDA2H391MS050***
		0.15	509	224	1.5	40x45	LDA2H391MB045***
	470	0.15	422	185	1.8	35x60	LDA2H471MS060***
		0.15	422	185	1.8	40x50	LDA2H471MB050***
		0.15	422	185	1.8	45x40	LDA2H471MV040***
	560	0.15	354	155	2.1	35x60	LDA2H561MS060***
		0.15	354	155	2.1	40x50	LDA2H561MB050***
		0.15	354	155	2.1	45x40	LDA2H561MV040***
	680	0.15	292	128	2.5	35x80	LDA2H681MS080***
		0.15	292	128	2.5	40x70	LDA2H681MB070***
		0.15	292	128	2.5	45x55	LDA2H681MV055***
	820	0.15	242	106	2.7	35x90	LDA2H821MS090***
		0.15	242	106	2.7	40x70	LDA2H821MB070***
	1000	0.15	198	87	3.1	40x80	LDA2H102MB080***
		0.15	198	87	3.1	45x70	LDA2H102MV070***
	1200	0.15	165	72	3.5	40x90	LDA2H122MB090***
		0.15	165	72	3.5	45x80	LDA2H122MV080***
		0.15	165	72	3.5	50x70	LDA2H122MJ070***
	1500	0.15	132	57	3.8	45x100	LDA2H152MV100***
		0.15	132	57	3.8	50x90	LDA2H152MJ090***
	1800	0.15	110	48	4.1	50x105	LDA2H182MJ105***

*** Indicates terminal type, length, and sleeve color.
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LCS series 85℃ 2000 hours

LRS longer life LRA longer life LRB (↑105℃)
LCS longer life LCA longer life LCB (↑105℃)



- **Rohs requirements**
- **85℃ for 2000 hours, high ripple, large size product**
- **Used for industrial products such as industrial power supplies, and inverter**

■ Product description

Item	Characteristic		
Operating temperature range	-40℃ ~ +85℃	-25℃ ~ +85℃	
Rated voltage(WV/V)	350V ~ 450V	460V ~ 500V	
Capacitance(CAP/C)	390 ~ 3300μF		
Tolerance(CAP/C)	±20% (25℃, 120Hz)		
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)		
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	350 ~ 500V	
	DF	0.15	
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	350 ~ 450V	460 ~ 500
	Z(-25℃/Z(+25℃)	4	
	Z(-40℃/Z(+25℃)	8	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6		
	C(-25℃/C(+25℃)≥0.7		

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	4000h	>65000h	2000h	3000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

■ Ripple current correction factor

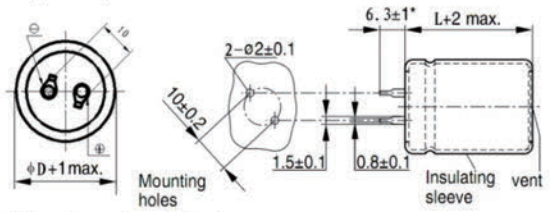
Temp.℃	40	55	70	85
Coefficient	2.3	2.1	1.8	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.16	1.30	1.40

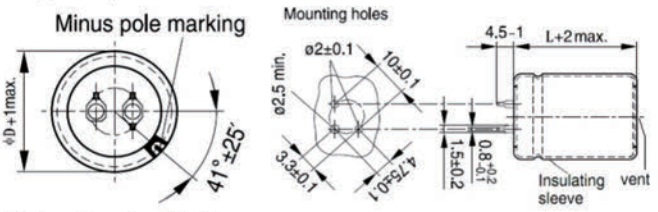
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

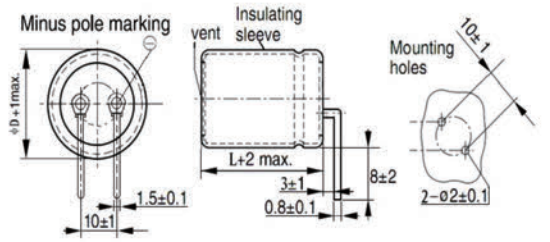
K-Type(Snap in 2 Pins):



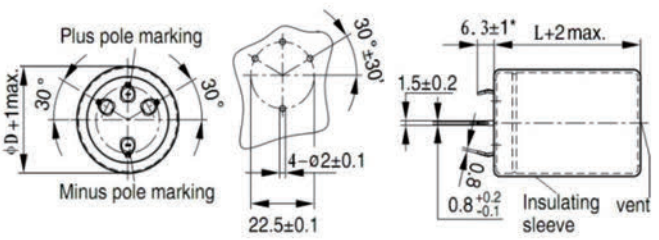
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LCS series: 85℃ 2000 hours,high ripple snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	560	0.15	354	177	2.9	30x55	LCS2V561MR055***
		0.15	354	177	2.9	35x40	LCS2V561MS040***
	680	0.15	292	145	3.6	35x45	LCS2V681MS045***
		0.15	292	145	3.6	40x40	LCS2V681MB040***
	820	0.15	242	120	4.5	35x60	LCS2V821MS060***
		0.15	242	120	4.5	40x45	LCS2V821MB045***
		0.15	242	120	4.5	45x40	LCS2V821MV040***
	1000	0.15	198	99	4.9	35x70	LCS2V102MS070***
		0.15	198	99	5.2	40x55	LCS2V102MB055***
		0.15	198	99	5.2	45x45	LCS2V102MV045***
	1200	0.15	165	82	5.5	35x80	LCS2V122MS080***
		0.15	165	82	5.6	40x70	LCS2V122MB070***
		0.15	165	82	5.6	45x50	LCS2V122MV050***
	1500	0.15	132	65	6.3	40x80	LCS2V152MB080***
		0.15	132	65	6.5	45x70	LCS2V152MV070***
	1800	0.15	110	54	7.7	40x100	LCS2V182MB100***
		0.15	110	54	7.9	45x70	LCS2V182MV070***
	2200	0.15	89	44	8.7	45x90	LCS2V222MV090***
		0.15	89	44	8.7	50x75	LCS2V222MJ075***
	2700	0.15	73	36	9.5	45x100	LCS2V272MV100***
		0.15	73	36	9.5	50x90	LCS2V272MJ090***
	3300	0.15	59	29	10.2	50x105	LCS2V332MJ105***
400 2G (450)	470	0.15	422	168	2.5	35x45	LCS2G471MS045***
		0.15	422	168	2.5	40x40	LCS2G471MB040***
	560	0.15	354	141	3.0	35x50	LCS2G561MS050***
		0.15	354	141	3.2	40x45	LCS2G561MB045***
		0.15	354	141	3.2	45x60	LCS2G561MV060***
	680	0.15	292	116	3.7	35x60	LCS2G681MS060***
		0.15	292	116	3.8	40x50	LCS2G681MB050***
		0.15	292	116	3.8	45x40	LCS2G681MV040***
	820	0.15	242	96	4.1	35x65	LCS2G821MS065***
		0.15	242	96	4.2	40x55	LCS2G821MB055***
		0.15	242	96	4.2	45x45	LCS2G821MV045***
	1000	0.15	198	79	4.8	35x70	LCS2G102MS070***
		0.15	198	79	4.9	40x60	LCS2G102MB060***
		0.15	198	79	4.9	45x50	LCS2G102MV050***
	1200	0.15	165	65	5.8	35x80	LCS2G122MS080***
		0.15	165	65	5.6	40x70	LCS2G122MB070***
		0.15	165	65	5.6	45x60	LCS2G122MV060***
	1500	0.15	132	52	6.8	40x80	LCS2G152MB080***
		0.15	132	52	6.9	45x70	LCS2G152MV070***
		0.15	132	52	6.9	50x70	LCS2G152MJ070***
	1800	0.15	110	43	7.4	40x90	LCS2G182MB090***
		0.15	110	43	7.5	45x80	LCS2G182MV080***
	2200	0.15	89	35	8.1	50x90	LCS2G222MJ090***
	2700	0.15	73	28	9.5	50x105	LCS2G272MJ105***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (470)	390	0.15	599	220	2.2	35x40	LCS2I391MS040***
		0.15	599	220	2.3	40x35	LCS2I391MB035***
	470	0.15	499	183	2.6	35x45	LCS2I471MS045***
		0.15	499	183	2.7	40x40	LCS2I471MB040***
	560	0.15	419	153	2.8	40x45	LCS2I561MB045***
		0.15	419	153	3.0	45x40	LCS2I561MV040***
	680	0.15	339	126	3.5	35x60	LCS2I681MS060***
		0.15	339	126	3.6	40x50	LCS2I681MB050***
		0.15	339	126	3.6	45x45	LCS2I681MV045***
	820	0.15	289	104	3.9	35x70	LCS2I821MS070***
		0.15	289	104	3.9	40x60	LCS2I821MB060***
		0.15	289	104	4.0	45x50	LCS2I821MV050***
	1000	0.15	239	85	4.6	35x80	LCS2I102MS080***
		0.15	239	85	4.7	40x70	LCS2I102MB070***
		0.15	239	85	4.7	45x60	LCS2I102MV060***
	1200	0.15	199	71	5.4	40x80	LCS2I122MB080***
		0.15	199	71	5.4	45x65	LCS2I122MV065***
	1500	0.15	159	57	6.4	45x80	LCS2I152MV080***
		0.15	159	57	6.4	50x75	LCS2I152MJ075***
	1800	0.15	129	47	7.3	45x95	LCS2I182MV095***
		0.15	129	47	7.4	50x85	LCS2I182MJ085***
	2200	0.15	100	38	8.2	50x100	LCS2I222MJ100***
450 2W (500)	390	0.15	509	224	2.6	35x40	LCS2W391MS040***
	470	0.15	422	185	3.0	35x50	LCS2W471MS050***
		0.15	422	185	3.0	40x40	LCS2W471MB040***
		0.15	422	185	3.0	45x35	LCS2W471MV035***
	560	0.15	354	165	3.3	35x50	LCS2W561MS050***
		0.15	354	165	3.4	40x50	LCS2W561MB050***
		0.15	354	165	3.4	45x40	LCS2W561MV040***
	680	0.15	292	128	3.7	35x60	LCS2W681MS060***
		0.15	292	128	3.8	40x60	LCS2W681MB060***
		0.15	292	128	3.8	45x50	LCS2W681MV050***
	820	0.15	242	106	4.5	35x80	LCS2W821MS080***
		0.15	242	106	4.6	40x60	LCS2W821MB060***
		0.15	242	106	4.6	45x50	LCS2W821MV050***
	1000	0.15	198	87	5.3	35x80	LCS2W102MS080***
		0.15	198	87	5.4	40x65	LCS2W102MB065***
		0.15	198	87	5.4	45x60	LCS2W102MV060***
	1200	0.15	165	72	6.1	40x80	LCS2W122MB080***
		0.15	165	72	6.2	45x70	LCS2W122MV070***
		0.15	165	72	6.2	50x65	LCS2W122MJ065***
	1500	0.15	132	57	7.2	40x90	LCS2W152MB090***
		0.15	132	57	7.3	45x80	LCS2W152MV080***
		0.15	132	57	7.3	50x80	LCS2W152MJ080***
	1800	0.15	110	48	7.9	45x100	LCS2W182MV100***
		0.15	110	48	7.9	50x90	LCS2W182MJ090***

■ LCS series: 85℃ 2000 hours,high ripple snap-in capacitor

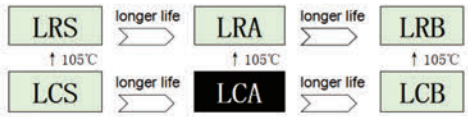
WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	390	0.15	509	224	1.9	35x50	LCS2H391MS050***
		0.15	509	224	1.9	40x45	LCS2H391MB045***
	470	0.15	422	185	2.3	35x60	LCS2H471MS060***
		0.15	422	185	2.3	40x50	LCS2H471MB050***
		0.15	422	185	2.3	45x40	LCS2H471MV040***
	560	0.15	354	155	2.6	35x60	LCS2H561MS060***
		0.15	354	155	2.6	40x50	LCS2H561MB050***
		0.15	354	155	2.7	45x40	LCS2H561MV040***
	680	0.15	292	128	3.1	35x80	LCS2H681MS080***
		0.15	292	128	3.1	40x70	LCS2H681MB070***
		0.15	292	128	3.1	45x55	LCS2H681MV055***
	820	0.15	242	106	3.3	35x90	LCS2H821MS090***
		0.15	242	106	3.4	40x70	LCS2H821MB070***
	1000	0.15	198	87	3.9	40x80	LCS2H102MB080***
		0.15	198	87	3.9	45x70	LCS2H102MV070***
	1200	0.15	165	72	4.3	40x90	LCS2H122MB090***
		0.15	165	72	4.3	45x80	LCS2H122MV080***
		0.15	165	72	4.3	50x70	LCS2H122MJ070***
	1500	0.15	132	57	4.8	45x100	LCS2H152MV100***
		0.15	132	57	4.8	50x90	LCS2H152MJ090***
	1800	0.15	110	48	5.2	50x105	LCS2H182MJ105***

*** Indicates terminal type, length, and sleeve color.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LCA series 85℃ 3000 hours





- **Rohs requirements**
- **85℃ for 3000 hours, high ripple, large size product**
- **Used for industrial products such as industrial power supplies, and inverter**

■ Product description

Item	Characteristic		
Operating temperature range	-40℃ ~ +85℃	-25℃ ~ +85℃	
Rated voltage(WV/V)	350V ~ 450V	460V ~ 500V	
Capacitance(CAP/C)	390 ~ 3300μF		
Tolerance(CAP/C)	±20% (25℃, 120Hz)		
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)		
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	350 ~ 500V	
	DF	0.15	
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	350 ~ 450V	460 ~ 500
	Z(-25℃/Z(+25℃)	4	
	Z(-40℃/Z(+25℃)	8	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6		
	C(-25℃/C(+25℃)≥0.7		

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	6000h	>100000h	3000h	4000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

■ Ripple current correction factor

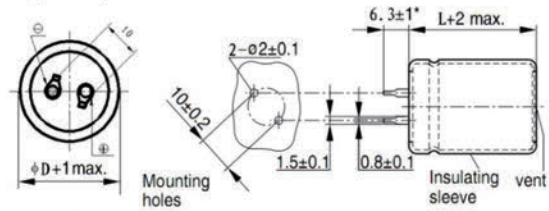
Temp.℃	40	55	70	85
Coefficient	2.3	2.1	1.8	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.16	1.30	1.40

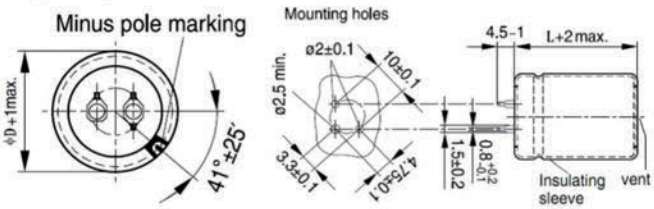
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

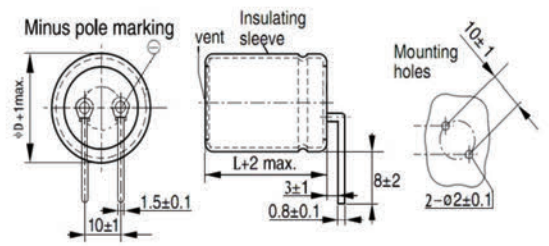
K-Type(Snap in 2 Pins):



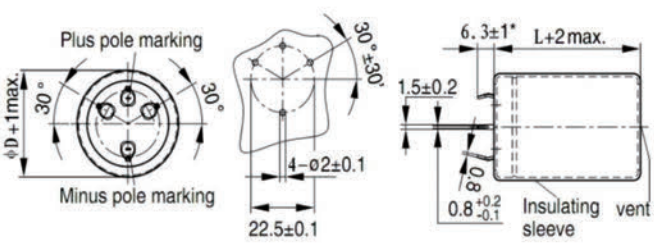
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LCA series: 85℃ 3000 hours,high ripple snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	560	0.15	354	177	2.9	30x55	LCA2V561MR055***
		0.15	354	177	2.9	35x40	LCA2V561MS040***
	680	0.15	292	145	3.6	35x45	LCA2V681MS045***
		0.15	292	145	3.6	40x40	LCA2V681MB040***
	820	0.15	242	120	4.5	35x60	LCA2V821MS060***
		0.15	242	120	4.5	40x45	LCA2V821MB045***
		0.15	242	120	4.5	45x40	LCA2V821MV040***
	1000	0.15	198	99	4.9	35x70	LCA2V102MS070***
		0.15	198	99	5.2	40x55	LCA2V102MB055***
		0.15	198	99	5.2	45x45	LCA2V102MV045***
	1200	0.15	165	82	5.5	35x80	LCA2V122MS080***
		0.15	165	82	5.6	40x70	LCA2V122MB070***
		0.15	165	82	5.6	45x50	LCA2V122MV050***
	1500	0.15	132	65	6.3	40x80	LCA2V152MB080***
		0.15	132	65	6.5	45x70	LCA2V152MV070***
	1800	0.15	110	54	7.7	40x100	LCA2V182MB100***
		0.15	110	54	7.9	45x70	LCA2V182MV070***
	2200	0.15	89	44	8.7	45x90	LCA2V222MV090***
		0.15	89	44	8.7	50x75	LCA2V222MJ075***
	2700	0.15	73	36	9.5	45x100	LCA2V272MV100***
		0.15	73	36	9.5	50x90	LCA2V272MJ090***
	3300	0.15	59	29	10.2	50x105	LCA2V332MJ105***
400 2G (450)	470	0.15	422	168	2.5	35x45	LCA2G471MS045***
		0.15	422	168	2.5	40x40	LCA2G471MB040***
	560	0.15	354	141	3.0	35x50	LCA2G561MS050***
		0.15	354	141	3.2	40x45	LCA2G561MB045***
		0.15	354	141	3.2	45x60	LCA2G561MV060***
	680	0.15	292	116	3.7	35x60	LCA2G681MS060***
		0.15	292	116	3.8	40x50	LCA2G681MB050***
		0.15	292	116	3.8	45x40	LCA2G681MV040***
	820	0.15	242	96	4.1	35x65	LCA2G821MS065***
		0.15	242	96	4.2	40x55	LCA2G821MB055***
		0.15	242	96	4.2	45x45	LCA2G821MV045***
	1000	0.15	198	79	4.8	35x70	LCA2G102MS070***
		0.15	198	79	4.9	40x60	LCA2G102MB060***
		0.15	198	79	4.9	45x50	LCA2G102MV050***
	1200	0.15	165	65	5.8	35x80	LCA2G122MS080***
		0.15	165	65	5.6	40x70	LCA2G122MB070***
		0.15	165	65	5.6	45x60	LCA2G122MV060***
	1500	0.15	132	52	6.8	40x80	LCA2G152MB080***
		0.15	132	52	6.9	45x70	LCA2G152MV070***
		0.15	132	52	6.9	50x70	LCA2G152MJ070***
	1800	0.15	110	43	7.4	40x90	LCA2G182MB090***
		0.15	110	43	7.5	45x80	LCA2G182MV080***
	2200	0.15	89	35	8.1	50x90	LCA2G222MJ090***
	2700	0.15	73	28	9.5	50x105	LCA2G272MJ105***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (470)	390	0.15	599	220	2.2	35x40	LCA2I391MS040***
		0.15	599	220	2.3	40x35	LCA2I391MB035***
	470	0.15	499	183	2.6	35x45	LCA2I471MS045***
		0.15	499	183	2.7	40x40	LCA2I471MB040***
	560	0.15	419	153	2.8	40x45	LCA2I561MB045***
		0.15	419	153	3.0	45x40	LCA2I561MV040***
	680	0.15	339	126	3.5	35x60	LCA2I681MS060***
		0.15	339	126	3.6	40x50	LCA2I681MB050***
		0.15	339	126	3.6	45x45	LCA2I681MV045***
	820	0.15	289	104	3.9	35x70	LCA2I821MS070***
		0.15	289	104	3.9	40x60	LCA2I821MB060***
		0.15	289	104	4.0	45x50	LCA2I821MV050***
	1000	0.15	239	85	4.6	35x80	LCA2I102MS080***
		0.15	239	85	4.7	40x70	LCA2I102MB070***
		0.15	239	85	4.7	45x60	LCA2I102MV060***
	1200	0.15	199	71	5.4	40x80	LCA2I122MB080***
		0.15	199	71	5.4	45x65	LCA2I122MV065***
	1500	0.15	159	57	6.4	45x80	LCA2I152MV080***
		0.15	159	57	6.4	50x75	LCA2I152MJ075***
	1800	0.15	129	47	7.3	45x95	LCA2I182MV095***
		0.15	129	47	7.4	50x85	LCA2I182MJ085***
	2200	0.15	100	38	8.2	50x100	LCA2I222MJ100***
450 2W (500)	390	0.15	509	224	2.6	35x40	LCA2W391MS040***
	470	0.15	422	185	3.0	35x50	LCA2W471MS050***
		0.15	422	185	3.0	40x40	LCA2W471MB040***
		0.15	422	185	3.0	45x35	LCA2W471MV035***
	560	0.15	354	165	3.3	35x50	LCA2W561MS050***
		0.15	354	165	3.4	40x50	LCA2W561MB050***
		0.15	354	165	3.4	45x40	LCA2W561MV040***
	680	0.15	292	128	3.7	35x60	LCA2W681MS060***
		0.15	292	128	3.8	40x60	LCA2W681MB060***
		0.15	292	128	3.8	45x50	LCA2W681MV050***
	820	0.15	242	106	4.5	35x80	LCA2W821MS080***
		0.15	242	106	4.6	40x60	LCA2W821MB060***
		0.15	242	106	4.6	45x50	LCA2W821MV050***
	1000	0.15	198	87	5.3	35x80	LCA2W102MS080***
		0.15	198	87	5.4	40x65	LCA2W102MB065***
		0.15	198	87	5.4	45x60	LCA2W102MV060***
	1200	0.15	165	72	6.1	40x80	LCA2W122MB080***
		0.15	165	72	6.2	45x70	LCA2W122MV070***
		0.15	165	72	6.2	50x65	LCA2W122MJ065***
	1500	0.15	132	57	7.2	40x90	LCA2W152MB090***
		0.15	132	57	7.3	45x80	LCA2W152MV080***
		0.15	132	57	7.3	50x80	LCA2W152MJ080***
	1800	0.15	110	48	7.9	45x100	LCA2W182MV100***
		0.15	110	48	7.9	50x90	LCA2W182MJ090***

■ LCA series: 85℃ 3000 hours,high ripple snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	390	0.15	509	224	1.9	35x50	LCA2H391MS050***
		0.15	509	224	1.9	40x45	LCA2H391MB045***
	470	0.15	422	185	2.3	35x60	LCA2H471MS060***
		0.15	422	185	2.3	40x50	LCA2H471MB050***
		0.15	422	185	2.3	45x40	LCA2H471MV040***
	560	0.15	354	155	2.6	35x60	LCA2H561MS060***
		0.15	354	155	2.6	40x50	LCA2H561MB050***
		0.15	354	155	2.7	45x40	LCA2H561MV040***
	680	0.15	292	128	3.1	35x80	LCA2H681MS080***
		0.15	292	128	3.1	40x70	LCA2H681MB070***
		0.15	292	128	3.1	45x55	LCA2H681MV055***
	820	0.15	242	106	3.3	35x90	LCA2H821MS090***
		0.15	242	106	3.4	40x70	LCA2H821MB070***
	1000	0.15	198	87	3.9	40x80	LCA2H102MB080***
		0.15	198	87	3.9	45x70	LCA2H102MV070***
	1200	0.15	165	72	4.3	40x90	LCA2H122MB090***
		0.15	165	72	4.3	45x80	LCA2H122MV080***
		0.15	165	72	4.3	50x70	LCA2H122MJ070***
	1500	0.15	132	57	4.8	45x100	LCA2H152MV100***
		0.15	132	57	4.8	50x90	LCA2H152MJ090***
	1800	0.15	110	48	5.2	50x105	LCA2H182MJ105***

*** Indicates terminal type, length, and sleeve color.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
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LCB series 85℃ 5000 hours

LRS longer life LRA longer life LRB (↑105℃)
LCS longer life LCA longer life LCB (↑105℃)



- **Rohs requirements**
- **85℃ for 5000 hours, high ripple, large size product**
- **Used for industrial products such as industrial power supplies, and inverter**

■ Product description

Item	Characteristic		
Operating temperature range	-40℃ ~ +85℃	-25℃ ~ +85℃	
Rated voltage(WV/V)	350V ~ 450V	460V ~ 500V	
Capacitance(CAP/C)	390 ~ 3300μF		
Tolerance(CAP/C)	±20% (25℃, 120Hz)		
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)		
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	350 ~ 500V	
	DF	0.15	
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	350 ~ 450V	460 ~ 500
	Z(-25℃/Z(+25℃)	4	
	Z(-40℃/Z(+25℃)	8	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6		
	C(-25℃/C(+25℃)≥0.7		

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	8000h	>100000h	5000h	7000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

■ Ripple current correction factor

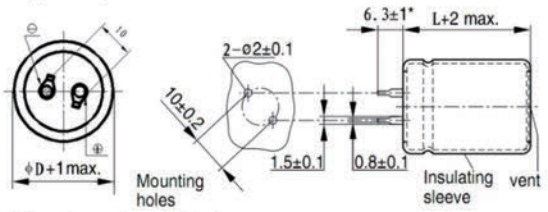
Temp.℃	40	55	70	85
Coefficient	2.3	2.1	1.8	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.16	1.30	1.40

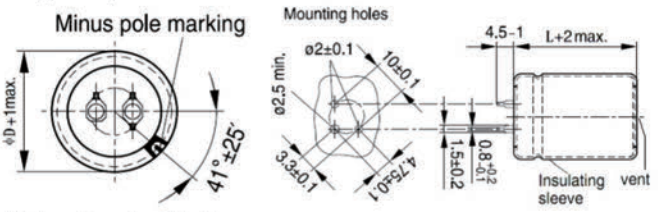
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

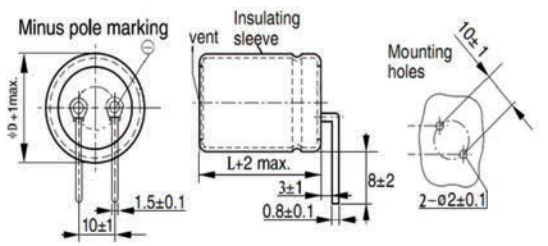
K-Type(Snap in 2 Pins):



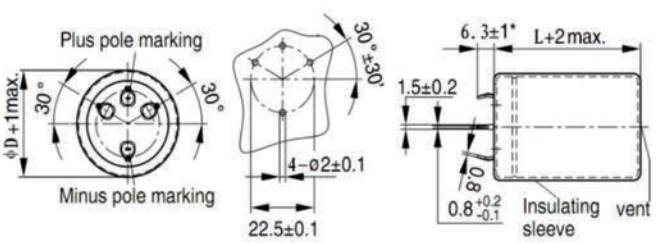
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LCB series:85℃ 5000 hours,high ripple snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	560	0.15	354	177	2.9	30x55	LCB2V561MR055***
		0.15	354	177	2.9	35x40	LCB2V561MS040***
	680	0.15	292	145	3.6	35x45	LCB2V681MS045***
		0.15	292	145	3.6	40x40	LCB2V681MB040***
	820	0.15	242	120	4.5	35x60	LCB2V821MS060***
		0.15	242	120	4.5	40x45	LCB2V821MB045***
		0.15	242	120	4.5	45x40	LCB2V821MV040***
	1000	0.15	198	99	4.9	35x70	LCB2V102MS070***
		0.15	198	99	5.2	40x55	LCB2V102MB055***
		0.15	198	99	5.2	45x45	LCB2V102MV045***
	1200	0.15	165	82	5.5	35x80	LCB2V122MS080***
		0.15	165	82	5.6	40x70	LCB2V122MB070***
		0.15	165	82	5.6	45x50	LCB2V122MV050***
	1500	0.15	132	65	6.3	40x80	LCB2V152MB080***
		0.15	132	65	6.5	45x70	LCB2V152MV070***
	1800	0.15	110	54	7.7	40x100	LCB2V182MB100***
		0.15	110	54	7.9	45x70	LCB2V182MV070***
	2200	0.15	89	44	8.7	45x90	LCB2V222MV090***
		0.15	89	44	8.7	50x75	LCB2V222MJ075***
	2700	0.15	73	36	9.5	45x100	LCB2V272MV100***
		0.15	73	36	9.5	50x90	LCB2V272MJ090***
	3300	0.15	59	29	10.2	50x105	LCB2V332MJ105***
400 2G (450)	470	0.15	422	168	2.5	35x45	LCB2G471MS045***
		0.15	422	168	2.5	40x40	LCB2G471MB040***
		0.15	422	168	3.0	35x50	LCB2G471MS050***
	560	0.15	354	141	3.2	40x45	LCB2G561MB045***
		0.15	354	141	3.2	45x60	LCB2G561MV060***
	680	0.15	292	116	3.7	35x60	LCB2G681MS060***
		0.15	292	116	3.8	40x50	LCB2G681MB050***
		0.15	292	116	3.8	45x40	LCB2G681MV040***
	820	0.15	242	96	4.1	35x65	LCB2G821MS065***
		0.15	242	96	4.2	40x55	LCB2G821MB055***
		0.15	242	96	4.2	45x45	LCB2G821MV045***
	1000	0.15	198	79	4.8	35x70	LCB2G102MS070***
		0.15	198	79	4.9	40x60	LCB2G102MB060***
		0.15	198	79	4.9	45x50	LCB2G102MV050***
	1200	0.15	165	65	5.8	35x80	LCB2G122MS080***
		0.15	165	65	5.6	40x70	LCB2G122MB070***
		0.15	165	65	5.6	45x60	LCB2G122MV060***
	1500	0.15	132	52	6.8	40x80	LCB2G152MB080***
		0.15	132	52	6.9	45x70	LCB2G152MV070***
		0.15	132	52	6.9	50x70	LCB2G152MJ070***
	1800	0.15	110	43	7.4	40x90	LCB2G182MB090***
		0.15	110	43	7.5	45x80	LCB2G182MV080***
	2200	0.15	89	35	8.1	50x90	LCB2G222MJ090***
	2700	0.15	73	28	9.5	50x105	LCB2G272MJ105***

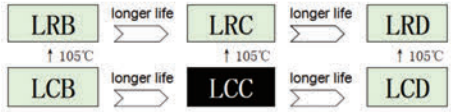
WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (470)	390	0.15	599	220	2.2	35x40	LCA2I391MS040***
		0.15	599	220	2.3	40x35	LCA2I391MB035***
	470	0.15	499	183	2.6	35x45	LCA2I471MS045***
		0.15	499	183	2.7	40x40	LCA2I471MB040***
	560	0.15	419	153	2.8	40x45	LCA2I561MB045***
		0.15	419	153	3.0	45x40	LCA2I561MV040***
	680	0.15	339	126	3.5	35x60	LCA2I681MS060***
		0.15	339	126	3.6	40x50	LCA2I681MB050***
		0.15	339	126	3.6	45x45	LCA2I681MV045***
	820	0.15	289	104	3.9	35x70	LCA2I821MS070***
		0.15	289	104	3.9	40x60	LCA2I821MB060***
		0.15	289	104	4.0	45x50	LCA2I821MV050***
	1000	0.15	239	85	4.6	35x80	LCA2I102MS080***
		0.15	239	85	4.7	40x70	LCA2I102MB070***
		0.15	239	85	4.7	45x60	LCA2I102MV060***
	1200	0.15	199	71	5.4	40x80	LCA2I122MB080***
		0.15	199	71	5.4	45x65	LCA2I122MV065***
	1500	0.15	159	57	6.4	45x80	LCA2I152MV080***
		0.15	159	57	6.4	50x75	LCA2I152MJ075***
	1800	0.15	129	47	7.3	45x95	LCA2I182MV095***
		0.15	129	47	7.4	50x85	LCA2I182MJ085***
	2200	0.15	129	38	8.2	50x100	LCA2I222MJ100***
450 2W (500)	390	0.15	509	224	2.6	35x40	LCB2W391MS040***
	470	0.15	422	185	3.0	35x50	LCB2W471MS050***
		0.15	422	185	3.0	40x40	LCB2W471MB040***
		0.15	422	185	3.0	45x35	LCB2W471MV035***
	560	0.15	354	165	3.3	35x50	LCB2W561MS050***
		0.15	354	165	3.4	40x50	LCB2W561MB050***
		0.15	354	165	3.4	45x40	LCB2W561MV040***
	680	0.15	292	128	3.7	35x60	LCB2W681MS060***
		0.15	292	128	3.8	40x60	LCB2W681MB060***
		0.15	292	128	3.8	45x50	LCB2W681MV050***
	820	0.15	242	106	4.5	35x80	LCB2W821MS080***
		0.15	242	106	4.6	40x60	LCB2W821MB060***
		0.15	242	106	4.6	45x50	LCB2W821MV050***
	1000	0.15	198	87	5.3	35x80	LCB2W102MS080***
		0.15	198	87	5.4	40x65	LCB2W102MB065***
		0.15	198	87	5.4	45x60	LCB2W102MV060***
	1200	0.15	165	72	6.1	40x80	LCB2W122MB080***
		0.15	165	72	6.2	45x70	LCB2W122MV070***
		0.15	165	72	6.2	50x65	LCB2W122MJ065***
	1500	0.15	132	57	7.2	40x90	LCB2W152MB090***
		0.15	132	57	7.3	45x80	LCB2W152MV080***
		0.15	132	57	7.3	50x80	LCB2W152MJ080***
	1800	0.15	110	48	7.9	45x100	LCB2W182MV100***
		0.15	110	48	7.9	50x90	LCB2W182MJ090***

■ LCB series:85℃ 5000 hours,high ripple snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	390	0.15	509	224	1.9	35x50	LCB2H391MS050***
		0.15	509	224	1.9	40x45	LCB2H391MB045***
	470	0.15	422	185	2.3	35x60	LCB2H471MS060***
		0.15	422	185	2.3	40x50	LCB2H471MB050***
		0.15	422	185	2.3	45x40	LCB2H471MV040***
	560	0.15	354	155	2.6	35x60	LCB2H561MS060***
		0.15	354	155	2.6	40x50	LCB2H561MB050***
		0.15	354	155	2.7	45x40	LCB2H561MV040***
	680	0.15	292	128	3.1	35x80	LCB2H681MS080***
		0.15	292	128	3.1	40x70	LCB2H681MB070***
		0.15	292	128	3.1	45x55	LCB2H681MV055***
	820	0.15	242	106	3.3	35x90	LCB2H821MS090***
		0.15	242	106	3.4	40x70	LCB2H821MB070***
	1000	0.15	198	87	3.9	40x80	LCB2H102MB080***
		0.15	198	87	3.9	45x70	LCB2H102MV070***
	1200	0.15	165	72	4.3	40x90	LCB2H122MB090***
		0.15	165	72	4.3	45x80	LCB2H122MV080***
		0.15	165	72	4.3	50x70	LCB2H122MJ070***
	1500	0.15	132	57	4.8	45x100	LCB2H152MV100***
		0.15	132	57	4.8	50x90	LCB2H152MJ090***
	1800	0.15	110	48	5.2	50x105	LCB2H182MJ105***

*** Indicates terminal type, length, and sleeve color.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
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LCC series 85℃ 8000 hours





- **Rohs requirements**
- **85℃ for 8000 hours, high ripple, large size product**
- **Used for industrial products such as industrial power supplies, and inverter**

■ Product description

Item	Characteristic		
Operating temperature range	-40℃ ~ +85℃	-25℃ ~ +85℃	
Rated voltage(WV/V)	350V ~ 450V	460V ~ 500V	
Capacitance(CAP/C)	390 ~ 3300μF		
Tolerance(CAP/C)	±20% (25℃, 120Hz)		
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)		
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	350 ~ 500V	
	DF	0.15	
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	350 ~ 450V	460 ~ 500
	Z(-25℃/Z(+25℃)	4	
	Z(-40℃/Z(+25℃)	8	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6		
	C(-25℃/C(+25℃)≥0.7		

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	9000h	>15000h	8000h	9000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

■ Ripple current correction factor

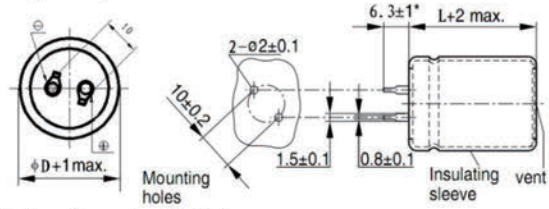
Temp.℃	40	55	70	85
Coefficient	2.3	2.1	1.8	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.16	1.30	1.40

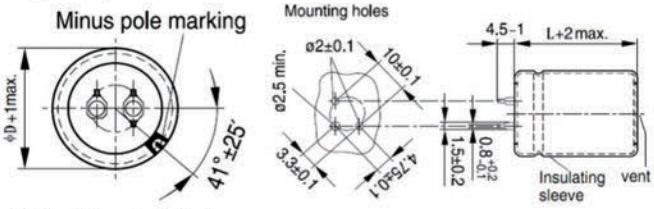
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

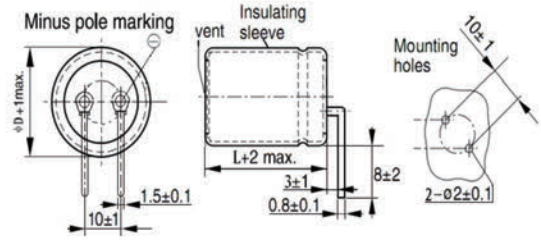
K-Type(Snap in 2 Pins):



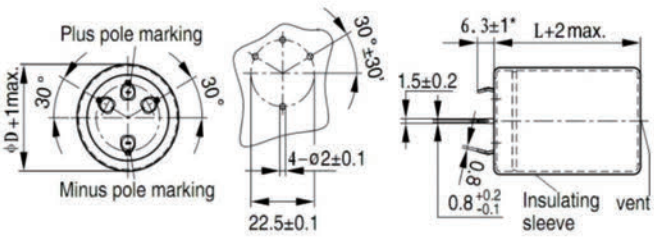
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LCC series: 85℃ 8000 hours,high ripple snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	560	0.15	354	177	2.9	30x60	LCC2V561MR060***
		0.15	354	177	2.9	35x50	LCC2V561MS050***
	680	0.15	292	145	3.6	35x50	LCC2V681MS050***
		0.15	292	145	3.6	40x50	LCC2V681MB050***
	820	0.15	242	120	4.5	35x60	LCC2V821MS060***
		0.15	242	120	4.5	40x50	LCC2V821MB050***
		0.15	242	120	4.5	45x40	LCC2V821MV040***
	1000	0.15	198	99	4.9	35x70	LCC2V102MS070***
		0.15	198	99	5.2	40x50	LCC2V102MB050***
		0.15	198	99	5.2	45x50	LCC2V102MV050***
	1200	0.15	165	82	5.5	35x90	LCC2V122MS090***
		0.15	165	82	5.6	40x80	LCC2V122MB080***
		0.15	165	82	5.6	45x70	LCC2V122MV070***
	1500	0.15	132	65	6.3	40x90	LCC2V152MB090***
		0.15	132	65	6.5	45x80	LCC2V152MV080***
	1800	0.15	110	54	7.7	40x110	LCC2V182MB110***
		0.15	110	54	7.9	45x80	LCC2V182MV080***
	2200	0.15	89	44	8.7	45x90	LCC2V222MV090***
		0.15	89	44	8.7	50x80	LCC2V222MJ080***
	2700	0.15	73	36	9.5	45x105	LCC2V272MV105***
		0.15	73	36	9.5	50x100	LCC2V272MJ100***
	3300	0.15	59	29	10.2	50x110	LCC2V332MJ110***
400 2G (450)	470	0.15	422	168	2.5	35x50	LCC2G471MS050***
		0.15	422	168	2.5	40x40	LCC2G471MB040***
		0.15	422	168	3.0	35x60	LCC2G471MS060***
	560	0.15	354	141	3.2	40x50	LCC2G561MB050***
		0.15	354	141	3.2	45x40	LCC2G561MV040***
	680	0.15	292	116	3.7	35x60	LCC2G681MS060***
		0.15	292	116	3.8	40x50	LCC2G681MB050***
		0.15	292	116	3.8	45x50	LCC2G681MV050***
	820	0.15	242	96	4.1	35x70	LCC2G821MS070***
		0.15	242	96	4.2	40x60	LCC2G821MB060***
		0.15	242	96	4.2	45x50	LCC2G821MV050***
	1000	0.15	198	79	4.8	35x80	LCC2G102MS080***
		0.15	198	79	4.9	40x70	LCC2G102MB070***
		0.15	198	79	4.9	45x60	LCC2G102MV060***
	1200	0.15	165	65	5.8	35x90	LCC2G122MS090***
		0.15	165	65	5.6	40x80	LCC2G122MB080***
		0.15	165	65	5.6	45x70	LCC2G122MV070***
	1500	0.15	132	52	6.8	40x90	LCC2G152MB090***
		0.15	132	52	6.9	45x80	LCC2G152MV080***
		0.15	132	52	6.9	50x70	LCC2G152MJ070***
	1800	0.15	110	43	7.4	40x100	LCC2G182MB100***
		0.15	110	43	7.5	45x90	LCC2G182MV090***
	2200	0.15	89	35	8.1	50x105	LCC2G222MJ105***
	2700	0.15	73	28	9.5	50x110	LCC2G272MJ110***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (470)	390	0.15	599	220	2.2	35x50	LCC2I391MS050***
		0.15	599	220	2.3	40x40	LCC2I391MB040***
	470	0.15	499	183	2.6	35x50	LCC2I471MS050***
		0.15	499	183	2.7	40x50	LCC2I471MB050***
	560	0.15	419	153	2.8	40x50	LCC2I561MB050***
		0.15	419	153	3.0	45x50	LCC2I561MV050***
	680	0.15	339	126	3.5	35x60	LCC2I681MS060***
		0.15	339	126	3.6	40x50	LCC2I681MB050***
		0.15	339	126	3.6	45x50	LCC2I681MV050***
	820	0.15	289	104	3.9	35x80	LCC2I821MS080***
		0.15	289	104	3.9	40x70	LCC2I821MB070***
		0.15	289	104	4.0	45x60	LCC2I821MV060***
	1000	0.15	239	85	4.6	35x90	LCC2I102MS090***
		0.15	239	85	4.7	40x80	LCC2I102MB080***
		0.15	239	85	4.7	45x70	LCC2I102MV070***
	1200	0.15	199	71	5.4	40x90	LCC2I122MB090***
		0.15	199	71	5.4	45x70	LCC2I122MV070***
	1500	0.15	159	57	6.4	45x80	LCC2I152MV080***
		0.15	159	57	6.4	50x80	LCC2I152MJ080***
	1800	0.15	129	47	7.3	45x105	LCC2I182MV105***
		0.15	129	47	7.4	50x90	LCC2I182MJ090***
	2200	0.15	129	38	8.2	50x110	LCC2I222MJ110***
450 2W (500)	390	0.15	509	224	2.6	35x50	LCC2W391MS050***
	470	0.15	422	185	3.0	35x60	LCC2W471MS060***
		0.15	422	185	3.0	40x50	LCC2W471MB050***
		0.15	422	185	3.0	45x50	LCC2W471MV050***
	560	0.15	354	165	3.3	35x60	LCC2W561MS060***
		0.15	354	165	3.4	40x60	LCC2W561MB060***
		0.15	354	165	3.4	45x50	LCC2W561MV050***
	680	0.15	292	128	3.7	35x70	LCC2W681MS070***
		0.15	292	128	3.8	40x70	LCC2W681MB070***
		0.15	292	128	3.8	45x50	LCC2W681MV050***
	820	0.15	242	106	4.5	35x90	LCC2W821MS090***
		0.15	242	106	4.6	40x70	LCC2W821MB070***
		0.15	242	106	4.6	45x60	LCC2W821MV060***
	1000	0.15	198	87	5.3	35x90	LCC2W102MS090***
		0.15	198	87	5.4	40x70	LCC2W102MB070***
		0.15	198	87	5.4	45x60	LCC2W102MV060***
	1200	0.15	165	72	6.1	40x90	LCC2W122MB090***
		0.15	165	72	6.2	45x80	LCC2W122MV080***
		0.15	165	72	6.2	50x70	LCC2W122MJ070***
	1500	0.15	132	57	7.2	40x100	LCC2W152MB100***
		0.15	132	57	7.3	45x90	LCC2W152MV090***
		0.15	132	57	7.3	50x80	LCC2W152MJ080***
	1800	0.15	110	48	7.9	45x105	LCC2W182MV105***
		0.15	110	48	7.9	50x105	LCC2W182MJ105***

■ LCC series: 85℃ 8000 hours,high ripple snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	390	0.15	509	224	1.9	35x50	LCC2H391MS050***
		0.15	509	224	1.9	40x45	LCC2H391MB045***
	470	0.15	422	185	2.3	35x60	LCC2H471MS060***
		0.15	422	185	2.3	40x50	LCC2H471MB050***
		0.15	422	185	2.3	45x40	LCC2H471MV040***
	560	0.15	354	155	2.6	35x70	LCC2H561MS070***
		0.15	354	155	2.6	40x60	LCC2H561MB060***
		0.15	354	155	2.7	45x50	LCC2H561MV050***
	680	0.15	292	128	3.1	35x80	LCC2H681MS080***
		0.15	292	128	3.1	40x70	LCC2H681MB070***
		0.15	292	128	3.1	45x60	LCC2H681MV060***
	820	0.15	242	106	3.3	35x90	LCC2H821MS090***
		0.15	242	106	3.4	40x80	LCC2H821MB080***
	1000	0.15	198	87	3.9	35x100	LCC2H102MS100***
		0.15	198	87	3.9	45x80	LCC2H102MV080***
	1200	0.15	165	72	4.3	35x110	LCC2H122MS110***
		0.15	165	72	4.3	40x90	LCC2H122MB090***
		0.15	165	72	4.3	45x90	LCC2H122MV090***
	1500	0.15	132	57	4.8	45x105	LCC2H152MV105***
		0.15	132	57	4.8	50x90	LCC2H152MJ090***
	1800	0.15	110	48	5.2	50x105	LCC2H182MJ105***

*** Indicates terminal type, length, and sleeve color.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
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LCD series 85℃ 10000 hours

LRC longer life LRD longer life LRE (↑105℃)
LCC longer life LCD longer life LCE (↑105℃)



- Rohs requirements
- 85℃ for 10000 hours, high ripple, large size product
- Used for industrial products such as industrial power supplies, and inverter

■ Product description

Item	Characteristic		
Operating temperature range	-40℃ ~ +85℃	-25℃ ~ +85℃	
Rated voltage(WV/V)	350V ~ 450V	460V ~ 500V	
Capacitance(CAP/C)	390 ~ 3300μF		
Tolerance(CAP/C)	±20% (25℃, 120Hz)		
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)		
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	350 ~ 500V	
	DF	0.15	
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	350 ~ 450V	460 ~ 500
	Z(-25℃/Z(+25℃)	4	
	Z(-40℃/Z(+25℃)	8	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6		
	C(-25℃/C(+25℃)≥0.7		

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	12000h	>180000h	10000h	10000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

■ Ripple current correction factor

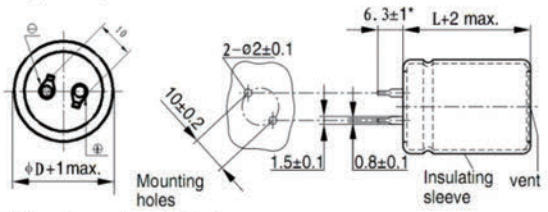
Temp.℃	40	55	70	85
Coefficient	2.3	2.1	1.8	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.16	1.30	1.40

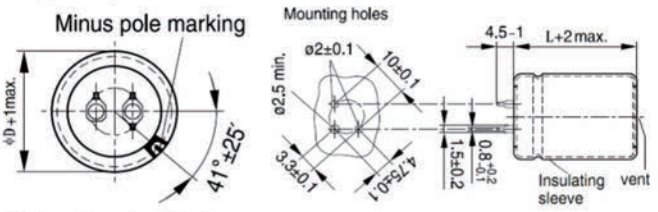
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

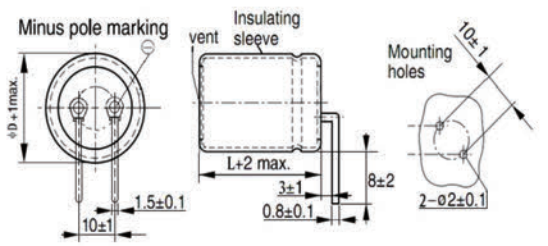
K-Type(Snap in 2 Pins):



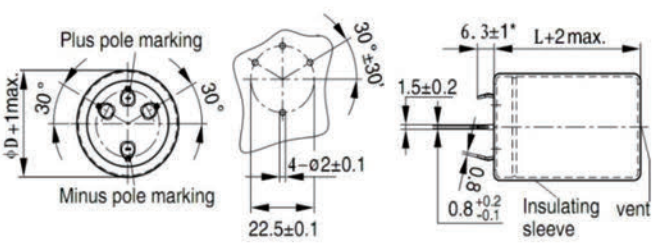
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LCD series: 85℃ 10000 hours,high ripple snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	560	0.15	354	177	2.9	30x60	LCD2V561MR060***
		0.15	354	177	2.9	35x50	LCD2V561MS050***
	680	0.15	292	145	3.6	35x50	LCD2V681MS050***
		0.15	292	145	3.6	40x50	LCD2V681MB050***
	820	0.15	242	120	4.5	35x60	LCD2V821MS060***
		0.15	242	120	4.5	40x50	LCD2V821MB050***
		0.15	242	120	4.5	45x40	LCD2V821MV040***
	1000	0.15	198	99	4.9	35x70	LCD2V102MS070***
		0.15	198	99	5.2	40x50	LCD2V102MB050***
		0.15	198	99	5.2	45x50	LCD2V102MV050***
	1200	0.15	165	82	5.5	35x90	LCD2V122MS090***
		0.15	165	82	5.6	40x80	LCD2V122MB080***
		0.15	165	82	5.6	45x70	LCD2V122MV070***
	1500	0.15	132	65	6.3	40x90	LCD2V152MB090***
		0.15	132	65	6.5	45x80	LCD2V152MV080***
	1800	0.15	110	54	7.7	40x110	LCD2V182MB110***
		0.15	110	54	7.9	45x80	LCD2V182MV080***
	2200	0.15	89	44	8.7	45x90	LCD2V222MV090***
		0.15	89	44	8.7	50x80	LCD2V222MJ080***
	2700	0.15	73	36	9.5	45x105	LCD2V272MV105***
		0.15	73	36	9.5	50x100	LCD2V272MJ100***
	3300	0.15	59	29	10.2	50x110	LCD2V332MJ110***
400 2G (450)	470	0.15	422	168	2.5	35x50	LCD2G471MS050***
		0.15	422	168	2.5	40x40	LCD2G471MB040***
	560	0.15	354	141	3.0	35x60	LCD2G471MS060***
		0.15	354	141	3.2	40x50	LCD2G561MB050***
		0.15	354	141	3.2	45x40	LCD2G561MV040***
	680	0.15	292	116	3.7	35x60	LCD2G681MS060***
		0.15	292	116	3.8	40x50	LCD2G681MB050***
		0.15	292	116	3.8	45x50	LCD2G681MV050***
	820	0.15	242	96	4.1	35x70	LCD2G821MS070***
		0.15	242	96	4.2	40x60	LCD2G821MB060***
		0.15	242	96	4.2	45x50	LCD2G821MV050***
	1000	0.15	198	79	4.8	35x80	LCD2G102MS080***
		0.15	198	79	4.9	40x70	LCD2G102MB070***
		0.15	198	79	4.9	45x60	LCD2G102MV060***
	1200	0.15	165	65	5.8	35x90	LCD2G122MS090***
		0.15	165	65	5.6	40x80	LCD2G122MB080***
		0.15	165	65	5.6	45x70	LCD2G122MV070***
	1500	0.15	132	52	6.8	40x90	LCD2G152MB090***
		0.15	132	52	6.9	45x80	LCD2G152MV080***
		0.15	132	52	6.9	50x70	LCD2G152MJ070***
	1800	0.15	110	43	7.4	40x100	LCD2G182MB100***
		0.15	110	43	7.5	45x90	LCD2G182MV090***
	2200	0.15	89	35	8.1	50x105	LCD2G222MJ105***
	2700	0.15	73	28	9.5	50x110	LCD2G272MJ110***

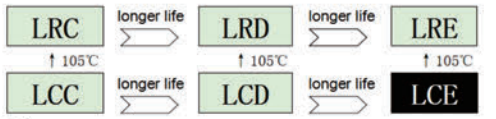
WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (470)	390	0.15	599	220	2.2	35x50	LCD2I391MS050***
		0.15	599	220	2.3	40x40	LCD2I391MB040***
	470	0.15	499	183	2.6	35x50	LCD2I471MS050***
		0.15	499	183	2.7	40x50	LCD2I471MB050***
	560	0.15	419	153	2.8	40x50	LCD2I561MB050***
		0.15	419	153	3.0	45x50	LCD2I561MV050***
	680	0.15	339	126	3.5	35x60	LCD2I681MS060***
		0.15	339	126	3.6	40x50	LCD2I681MB050***
		0.15	339	126	3.6	45x50	LCD2I681MV050***
	820	0.15	289	104	3.9	35x80	LCD2I821MS080***
		0.15	289	104	3.9	40x70	LCD2I821MB070***
		0.15	289	104	4.0	45x60	LCD2I821MV060***
	1000	0.15	239	85	4.6	35x90	LCD2I102MS090***
		0.15	239	85	4.7	40x80	LCD2I102MB080***
		0.15	239	85	4.7	45x70	LCD2I102MV070***
	1200	0.15	199	71	5.4	40x90	LCD2I122MB090***
		0.15	199	71	5.4	45x70	LCD2I122MV070***
	1500	0.15	159	57	6.4	45x80	LCD2I152MV080***
		0.15	159	57	6.4	50x80	LCD2I152MJ080***
	1800	0.15	129	47	7.3	45x105	LCD2I182MV105***
		0.15	129	47	7.4	50x90	LCD2I182MJ090***
	2200	0.15	100	38	8.2	50x110	LCD2I222MJ110***
450 2W (500)	390	0.15	509	224	2.6	35x50	LCD2W391MS050***
	470	0.15	422	185	3.0	35x60	LCD2W471MS060***
		0.15	422	185	3.0	40x50	LCD2W471MB050***
		0.15	422	185	3.0	45x50	LCD2W471MV050***
	560	0.15	354	165	3.3	35x60	LCD2W561MS060***
		0.15	354	165	3.4	40x60	LCD2W561MB060***
		0.15	354	165	3.4	45x50	LCD2W561MV050***
	680	0.15	292	128	3.7	35x70	LCD2W681MS070***
		0.15	292	128	3.8	40x70	LCD2W681MB070***
		0.15	292	128	3.8	45x50	LCD2W681MV050***
	820	0.15	242	106	4.5	35x90	LCD2W821MS090***
		0.15	242	106	4.6	40x70	LCD2W821MB070***
		0.15	242	106	4.6	45x60	LCD2W821MV060***
	1000	0.15	198	87	5.3	35x90	LCD2W102MS090***
		0.15	198	87	5.4	40x70	LCD2W102MB070***
		0.15	198	87	5.4	45x60	LCD2W102MV060***
	1200	0.15	165	72	6.1	40x90	LCD2W122MB090***
		0.15	165	72	6.2	45x80	LCD2W122MV080***
		0.15	165	72	6.2	50x70	LCD2W122MJ070***
	1500	0.15	132	57	7.2	40x100	LCD2W152MB100***
		0.15	132	57	7.3	45x90	LCD2W152MV090***
		0.15	132	57	7.3	50x80	LCD2W152MJ080***
	1800	0.15	110	48	7.9	45x105	LCD2W182MV105***
		0.15	110	48	7.9	50x105	LCD2W182MJ105***

■ LCD series: 85℃ 10000 hours,high ripple snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	390	0.15	509	224	1.9	35x50	LCD2H391MS050***
		0.15	509	224	1.9	40x45	LCD2H391MB045***
	470	0.15	422	185	2.3	35x60	LCD2H471MS060***
		0.15	422	185	2.3	40x50	LCD2H471MB050***
		0.15	422	185	2.3	45x40	LCD2H471MV040***
	560	0.15	354	155	2.6	35x70	LCD2H561MS070***
		0.15	354	155	2.6	40x60	LCD2H561MB060***
		0.15	354	155	2.7	45x50	LCD2H561MV050***
	680	0.15	292	128	3.1	35x80	LCD2H681MS080***
		0.15	292	128	3.1	40x70	LCD2H681MB070***
		0.15	292	128	3.1	45x60	LCD2H681MV060***
	820	0.15	242	106	3.3	35x90	LCD2H821MS090***
		0.15	242	106	3.4	40x80	LCD2H821MB080***
	1000	0.15	198	87	3.9	35x100	LCD2H102MS100***
		0.15	198	87	3.9	45x80	LCD2H102MV080***
	1200	0.15	165	72	4.3	35x110	LCD2H122MS110***
		0.15	165	72	4.3	40x90	LCD2H122MB090***
		0.15	165	72	4.3	45x90	LCD2H122MV090***
	1500	0.15	132	57	4.8	45x105	LCD2H152MV105***
		0.15	132	57	4.8	50x90	LCD2H152MJ090***
	1800	0.15	110	48	5.2	50x105	LCD2H182MJ105***

*** Indicates terminal type, length, and sleeve color.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
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LCE series 85℃ 12000 hours





- **Rohs requirements**
- **85℃ for 12000 hours, high ripple, large size product**
- **Used for industrial products such as industrial power supplies, and inverter**

■ Product description

Item	Characteristic		
Operating temperature range	-40℃ ~ +85℃	-25℃ ~ +85℃	
Rated voltage(WV/V)	350V ~ 450V	460V ~ 500V	
Capacitance(CAP/C)	390 ~ 3300μF		
Tolerance(CAP/C)	±20% (25℃, 120Hz)		
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)		
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	350 ~ 500V	
	DF	0.15	
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	350 ~ 450V	460 ~ 500
	Z(-25℃/Z(+25℃)	4	
	Z(-40℃/Z(+25℃)	8	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6		
	C(-25℃/C(+25℃)≥0.7		

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	15000h	>200000h	12000h	12000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

■ Ripple current correction factor

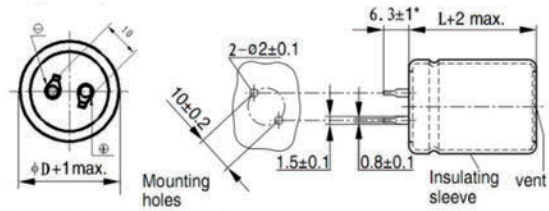
Temp.℃	40	55	70	85
Coefficient	2.3	2.1	1.8	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.16	1.30	1.40

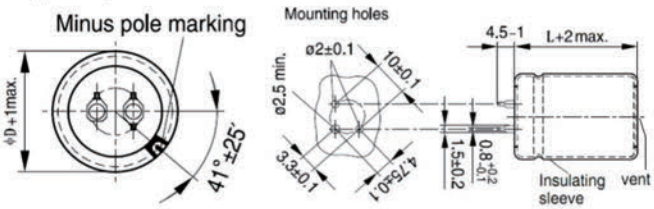
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

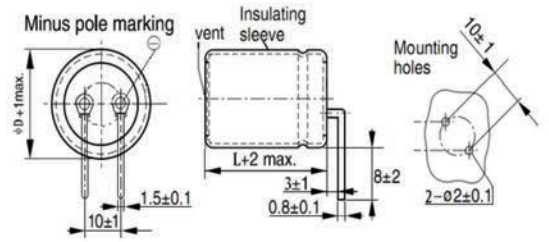
K-Type(Snap in 2 Pins):



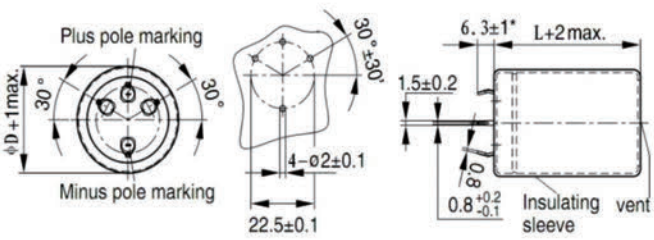
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LCE series: 85℃ 12000 hours,high ripple snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	560	0.15	354	177	2.9	30x60	LCE2V561MR060***
		0.15	354	177	2.9	35x50	LCE2V561MS050***
	680	0.15	292	145	3.6	35x50	LCE2V681MS050***
		0.15	292	145	3.6	40x50	LCE2V681MB050***
	820	0.15	242	120	4.5	35x60	LCE2V821MS060***
		0.15	242	120	4.5	40x50	LCE2V821MB050***
		0.15	242	120	4.5	45x40	LCE2V821MV040***
	1000	0.15	198	99	4.9	35x70	LCE2V102MS070***
		0.15	198	99	5.2	40x50	LCE2V102MB050***
		0.15	198	99	5.2	45x50	LCE2V102MV050***
	1200	0.15	165	82	5.5	35x90	LCE2V122MS090***
		0.15	165	82	5.6	40x80	LCE2V122MB080***
		0.15	165	82	5.6	45x70	LCE2V122MV070***
	1500	0.15	132	65	6.3	40x90	LCE2V152MB090***
		0.15	132	65	6.5	45x80	LCE2V152MV080***
	1800	0.15	110	54	7.7	40x110	LCE2V182MB110***
		0.15	110	54	7.9	45x80	LCE2V182MV080***
	2200	0.15	89	44	8.7	45x90	LCE2V222MV090***
		0.15	89	44	8.7	50x80	LCE2V222MJ080***
	2700	0.15	73	36	9.5	45x105	LCE2V272MV105***
		0.15	73	36	9.5	50x100	LCE2V272MJ100***
	3300	0.15	59	29	10.2	50x110	LCE2V332MJ110***
400 2G (450)	470	0.15	422	168	2.5	35x50	LCE2G471MS050***
		0.15	422	168	2.5	40x40	LCE2G471MB040***
	560	0.15	354	141	3.0	35x60	LCE2G561MS060***
		0.15	354	141	3.2	40x50	LCE2G561MB050***
		0.15	354	141	3.2	45x40	LCE2G561MV040***
	680	0.15	292	116	3.7	35x60	LCE2G681MS060***
		0.15	292	116	3.8	40x50	LCE2G681MB050***
		0.15	292	116	3.8	45x50	LCE2G681MV050***
	820	0.15	242	96	4.1	35x70	LCE2G821MS070***
		0.15	242	96	4.2	40x60	LCE2G821MB060***
		0.15	242	96	4.2	45x50	LCE2G821MV050***
	1000	0.15	198	79	4.8	35x90	LCE2G102MS090***
		0.15	198	79	4.9	40x70	LCE2G102MB070***
		0.15	198	79	4.9	45x60	LCE2G102MV060***
	1200	0.15	165	65	5.8	35x90	LCE2G122MS090***
		0.15	165	65	5.6	40x80	LCE2G122MB080***
		0.15	165	65	5.6	45x70	LCE2G122MV070***
	1500	0.15	132	52	6.8	40x90	LCE2G152MB090***
		0.15	132	52	6.9	45x80	LCE2G152MV080***
		0.15	132	52	6.9	50x70	LCE2G152MJ070***
	1800	0.15	110	43	7.4	40x100	LCE2G182MB100***
		0.15	110	43	7.5	45x90	LCE2G182MV090***
	2200	0.15	89	35	8.1	50x105	LCE2G222MJ105***
	2700	0.15	73	28	9.5	50x110	LCE2G272MJ110***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (470)	390	0.15	599	220	2.2	35x50	LCE2I391MS050***
		0.15	599	220	2.3	40x40	LCE2I391MB040***
	470	0.15	499	183	2.6	35x50	LCE2I471MS050***
		0.15	499	183	2.7	40x50	LCE2I471MB050***
	560	0.15	419	153	2.8	40x50	LCE2I561MB050***
		0.15	419	153	3.0	45x50	LCE2I561MV050***
	680	0.15	339	126	3.5	35x60	LCE2I681MS060***
		0.15	339	126	3.6	40x50	LCE2I681MB050***
		0.15	339	126	3.6	45x50	LCE2I681MV050***
	820	0.15	289	104	3.9	35x80	LCE2I821MS080***
		0.15	289	104	3.9	40x70	LCE2I821MB070***
		0.15	289	104	4.0	45x60	LCE2I821MV060***
	1000	0.15	239	85	4.6	35x90	LCE2I102MS090***
		0.15	239	85	4.7	40x80	LCE2I102MB080***
		0.15	239	85	4.7	45x70	LCE2I102MV070***
	1200	0.15	199	71	5.4	40x90	LCE2I122MB090***
		0.15	199	71	5.4	45x70	LCE2I122MV070***
	1500	0.15	159	57	6.4	45x80	LCE2I152MV080***
		0.15	159	57	6.4	50x80	LCE2I152MJ080***
	1800	0.15	129	47	7.3	45x105	LCE2I182MV105***
		0.15	129	47	7.4	50x90	LCE2I182MJ090***
	2200	0.15	129	38	8.2	50x110	LCE2I222MJ110***
450 2W (500)	390	0.15	509	224	2.6	35x50	LCE2W391MS050***
	470	0.15	422	185	3.0	35x60	LCE2W471MS060***
		0.15	422	185	3.0	40x50	LCE2W471MB050***
		0.15	422	185	3.0	45x50	LCE2W471MV050***
	560	0.15	354	165	3.3	35x60	LCE2W561MS060***
		0.15	354	165	3.4	40x60	LCE2W561MB060***
		0.15	354	165	3.4	45x50	LCE2W561MV050***
	680	0.15	292	128	3.7	35x70	LCE2W681MS070***
		0.15	292	128	3.8	40x70	LCE2W681MB070***
		0.15	292	128	3.8	45x50	LCE2W681MV050***
	820	0.15	242	106	4.5	35x90	LCE2W821MS090***
		0.15	242	106	4.6	40x70	LCE2W821MB070***
		0.15	242	106	4.6	45x60	LCE2W821MV060***
	1000	0.15	198	87	5.3	35x90	LCE2W102MS090***
		0.15	198	87	5.4	40x70	LCE2W102MB070***
		0.15	198	87	5.4	45x60	LCE2W102MV060***
	1200	0.15	165	72	6.1	40x90	LCE2W122MB090***
		0.15	165	72	6.2	45x80	LCE2W122MV080***
		0.15	165	72	6.2	50x70	LCE2W122MJ070***
	1500	0.15	132	57	7.2	40x100	LCE2W152MB100***
		0.15	132	57	7.3	45x90	LCE2W152MV090***
		0.15	132	57	7.3	50x80	LCE2W152MJ080***
	1800	0.15	110	48	7.9	45x105	LCE2W182MV105***
		0.15	110	48	7.9	50x105	LCE2W182MJ105***

■ LCE series: 85℃ 12000 hours,high ripple snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	390	0.15	509	224	1.9	35x50	LCE2H391MS050***
		0.15	509	224	1.9	40x45	LCE2H391MB045***
	470	0.15	422	185	2.3	35x60	LCE2H471MS060***
		0.15	422	185	2.3	40x50	LCE2H471MB050***
		0.15	422	185	2.3	45x40	LCE2H471MV040***
	560	0.15	354	155	2.6	35x70	LCE2H561MS070***
		0.15	354	155	2.6	40x60	LCE2H561MB060***
		0.15	354	155	2.7	45x50	LCE2H561MV050***
	680	0.15	292	128	3.1	35x90	LCE2H681MS090***
		0.15	292	128	3.1	40x70	LCE2H681MB070***
		0.15	292	128	3.1	45x60	LCE2H681MV060***
	820	0.15	242	106	3.3	35x100	LCE2H821MS100***
		0.15	242	106	3.4	40x80	LCE2H821MB080***
	1000	0.15	198	87	3.9	35x110	LCE2H102MS110***
		0.15	198	87	3.9	40x100	LCE2H102MB100***
	1200	0.15	165	72	4.3	40x100	LCE2H122MB100***
		0.15	165	72	4.3	45x90	LCE2H122MV090***
		0.15	165	72	4.3	45x100	LCE2H122MV100***
	1500	0.15	132	57	4.8	45x110	LCE2H152MV110***
		0.15	132	57	4.8	50x100	LCE2H152MJ100***
	1800	0.15	110	48	5.2	50x110	LCE2H182MJ110***

*** Indicates terminal type, length, and sleeve color.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LRS series 105℃ 2000 hours

LRS longer life LRA longer life LRB
↑105℃ ↑105℃ ↑105℃
LCS longer life LCA longer life LCB



- **Rohs requirements**
- **105℃ for 2000 hours, high ripple, large size product**
- **Used for industrial products such as photovoltaic, solar energy, and inverter**

■ Product description

Item	Characteristic		
Operating temperature range	-40℃ ~ +105℃	-25℃ ~ +105℃	
Rated voltage(WV/V)	350V ~ 450V	460V ~ 500V	
Capacitance(CAP/C)	390 ~ 3300μF		
Tolerance(CAP/C)	±20% (25℃, 120Hz)		
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)		
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	350 ~ 500V	
	DF	0.15	
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	350 ~ 450V	460 ~ 500
	Z(-25℃/Z(+25℃)	4	7
	Z(-40℃/Z(+25℃)	7	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6		
	C(-25℃/C(+25℃)≥0.7		

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	4000h	>180000h	2000h	3000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

■ Ripple current correction factor

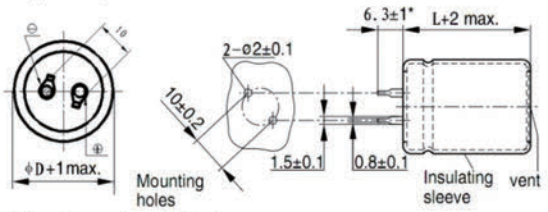
Temp.℃	40	55	85	105
Coefficient	3.0	2.8	2.0	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.16	1.30	1.40

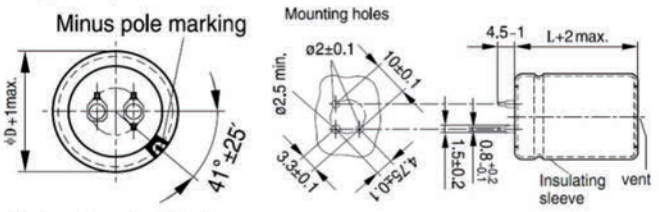
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

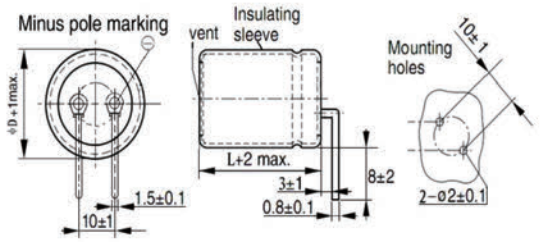
K-Type(Snap in 2 Pins):



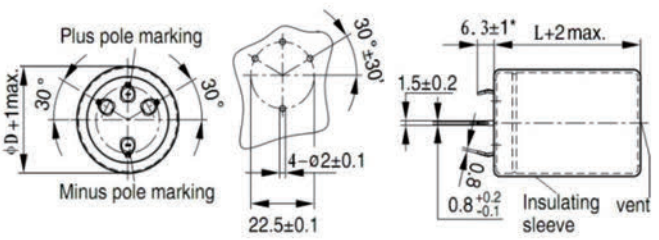
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LRS series:105℃ 2000 hours,high ripple snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	560	0.15	350	170	2.3	30x60	LRS2V561MR060***
		0.15	350	170	2.33	35x40	LRS2V561MS040***
	680	0.15	290	140	2.73	35x50	LRS2V681MS050***
		0.15	290	140	2.68	40x40	LRS2V681MB040***
	820	0.15	240	120	3.0	35x60	LRS2V821MS060***
		0.15	240	120	3.1	40x50	LRS2V821MB050***
		0.15	240	120	2.85	45x40	LRS2V821MV040***
	1000	0.15	190	100	3.5	35x65	LRS2V102MS065***
		0.15	190	100	3.37	40x60	LRS2V102MB060***
		0.15	190	100	3.06	45x50	LRS2V102MV050***
	1200	0.15	160	80	3.81	35x80	LRS2V122MS080***
		0.15	160	80	3.81	40x65	LRS2V122MB065***
		0.15	160	80	3.47	45x50	LRS2V122MV050***
	1500	0.15	130	60	4.62	40x80	LRS2V152MB080***
		0.15	130	60	4.27	45x65	LRS2V152MV065***
	1800	0.15	110	50	5.43	40x95	LRS2V182MB095***
		0.15	110	50	4.93	45x80	LRS2V182MV080***
	2200	0.15	90	40	5.86	45x90	LRS2V222MV090***
		0.15	90	40	5.86	50x80	LRS2V222MJ080***
	2700	0.15	70	30	6.77	45x100	LRS2V272MV100***
		0.15	70	30	6.77	50x90	LRS2V272MJ090***
	3300	0.15	60	30	6.77	50x105	LRS2V332MJ105***
400 2G (450)	470	0.15	420	160	2.11	35x45	LRS2G471MS045***
		0.15	420	160	2.14	40x40	LRS2G471MB040***
	560	0.15	350	140	2.5	35x50	LRS2G561MS050***
		0.15	350	140	2.43	40x45	LRS2G561MB045***
		0.15	350	140	2.35	45x40	LRS2G561MV040***
	680	0.15	290	110	2.73	35x60	LRS2G681MS060***
		0.15	290	110	2.78	40x50	LRS2G681MB050***
		0.15	290	110	2.59	45x40	LRS2G681MV040***
	820	0.15	240	90	3.17	35x65	LRS2G821MS065***
		0.15	240	90	3.05	40x55	LRS2G821MB055***
		0.15	240	90	2.77	45x45	LRS2G821MV045***
	1000	0.15	190	80	3.48	35x80	LRS2G102MS080***
		0.15	190	80	3.48	40x65	LRS2G102MB065***
		0.15	190	80	3.17	45x55	LRS2G102MV055***
	1200	0.15	160	60	4.13	35x90	LRS2G122MS090***
		0.15	160	60	4.13	40x80	LRS2G122MB080***
		0.15	160	60	3.70	45x60	LRS2G122MV060***
	1500	0.15	130	50	4.39	40x90	LRS2G152MB090***
		0.15	130	50	4.39	45x75	LRS2G152MV075***
		0.15	130	50	4.39	50x70	LRS2G152MJ070***
	1800	0.15	110	40	5.30	45x90	LRS2G182MV090***
		0.15	110	40	5.3	50x80	LRS2G182MJ080***
	2200	0.15	90	30	5.9	50x90	LRS2G222MJ090***
	2700	0.15	70	20	6.5	50x105	LRS2G272MJ105***

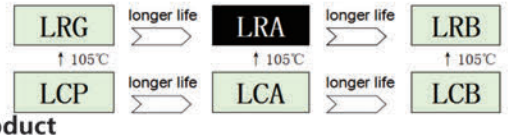
WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (470)	390	0.15	600	220	1.92	35x40	LRS2I391MS040***
		0.15	600	220	1.95	40x35	LRS2I391MB035***
	470	0.15	500	180	2.27	35x45	LRS2I471MS045***
		0.15	500	180	2.23	40x40	LRS2I471MB040***
	560	0.15	420	150	2.56	35x50	LRS2I561MS050***
		0.15	420	150	2.4	45x40	LRS2I561MV040***
	680	0.15	340	126	2.81	35x60	LRS2I681MS060***
		0.15	340	120	2.78	40x50	LRS2I681MB050***
		0.15	340	120	2.52	45x45	LRS2I681MV045***
	820	0.15	290	100	3.26	35x70	LRS2I821MS070***
		0.15	290	100	3.05	40x60	LRS2I821MB060***
		0.15	290	100	2.9	45x50	LRS2I821MV050***
	1000	0.15	240	80	3.67	35x80	LRS2I102MS080***
		0.15	240	80	3.67	40x70	LRS2I102MB070***
		0.15	240	80	3.38	45x60	LRS2I102MV060***
	1200	0.15	200	70	4.33	40x80	LRS2I122MB080***
		0.15	200	70	4.68	45x80	LRS2I122MV080***
	1500	0.15	160	50	4.64	50x70	LRS2I152MJ070***
		0.15	160	50	4.62	50x80	LRS2I152MJ080***
	1800	0.15	130	48	5.42	45x95	LRS2I182MV095***
		0.15	130	48	5.42	50x85	LRS2I182MJ085***
	2200	0.15	130	39	6.0	50x100	LRS2I222MJ100***
450 2W (500)	390	0.15	500	220	2.0	35x40	LRS2W391MS040***
	470	0.15	420	180	2.3	35x45	LRS2W471MS045***
		0.15	420	180	2.2	40x40	LRS2W471MB040***
		0.15	420	180	2.2	45x35	LRS2W471MV035***
	560	0.15	350	180	2.47	35x55	LRS2W561MS055***
		0.15	350	180	2.52	40x50	LRS2W561MB050***
		0.15	350	180	2.35	45x40	LRS2W561MV040***
	680	0.15	290	120	2.89	35x65	LRS2W681MS065***
		0.15	290	120	2.78	40x60	LRS2W681MB060***
		0.15	290	120	2.61	45x50	LRS2W681MV050***
	820	0.15	240	100	3.24	35x75	LRS2W821MS075***
		0.15	240	100	3.24	40x65	LRS2W821MB065***
		0.15	240	100	3.10	45x50	LRS2W821MV050***
	1000	0.15	190	80	3.77	35x90	LRS2W102MS090***
		0.15	190	80	3.77	40x80	LRS2W102MB080***
		0.15	190	80	3.68	45x65	LRS2W102MV065***
	1200	0.15	160	70	4.43	40x95	LRS2W122MB095***
		0.15	160	70	4.23	45x75	LRS2W122MV075***
		0.15	160	70	4.23	50x65	LRS2W122MJ065***
	1500	0.15	130	50	4.84	40x100	LRS2W152MB100***
		0.15	130	50	4.84	45x90	LRS2W152MV090***
		0.15	130	50	4.84	50x80	LRS2W152MJ080***
	1800	0.15	110	40	5.30	45x105	LRS2W182MV105***
		0.15	110	40	5.30	50x90	LRS2W182MJ090***

■ LRS series:105℃ 2000 hours,high ripple snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	390	0.15	510	220	1.8	35x50	LRS2H391MS050***
		0.15	510	220	1.8	40x45	LRS2H391MB045***
	470	0.15	420	180	2.0	35x55	LRS2H471MS055***
		0.15	420	180	2.0	40x50	LRS2H471MB050***
		0.15	420	180	2.0	45x40	LRS2H471MV040***
	560	0.15	350	150	2.25	35x65	LRS2H561MS065***
		0.15	350	150	2.25	40x55	LRS2H561MB055***
		0.15	350	150	2.25	45x50	LRS2H561MV050***
	680	0.15	290	120	2.6	35x75	LRS2H681MS075***
		0.15	290	120	2.6	40x70	LRS2H681MB070***
		0.15	290	120	2.6	45x55	LRS2H681MV055***
	820	0.15	240	100	2.85	40x75	LRS2H821MB075***
		0.15	240	100	2.85	45x60	LRS2H821MV060***
	1000	0.15	190	80	3.3	40x90	LRS2H102MB090***
		0.15	190	80	3.3	45x75	LRS2H102MV075***
	1200	0.15	160	70	4.0	40x100	LRS2H122MB100***
		0.15	160	70	4.0	45x85	LRS2H122MV085***
		0.15	160	70	4.0	50x80	LRS2H122MJ080***
	1500	0.15	130	50	4.45	45x100	LRS2H152MV100***
		0.15	130	50	4.45	50x95	LRS2H152MJ095***
	1800	0.15	110	40	4.85	50x105	LRS2H182MJ105***

*** Indicates terminal type, length, and sleeve color.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
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LRA series 105℃ 3000 hours





- **Rohs requirements**
- **105℃ for 3000 hours, high ripple, large size product**
- **Used for industrial products such as photovoltaic, solar energy, and inverter**

■ Product description

Item	Characteristic		
Operating temperature range	-40℃ ~ +105℃	-25℃ ~ +105℃	
Rated voltage(WV/V)	350V ~ 450V	460V ~ 500V	
Capacitance(CAP/C)	390 ~ 3300μF		
Tolerance(CAP/C)	±20% (25℃, 120Hz)		
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)		
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	350 ~ 500V	
	DF	0.15	
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	350 ~ 450V	460 ~ 500
	Z(-25℃/Z(+25℃)	4	7
	Z(-40℃/Z(+25℃)	7	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6		
	C(-25℃/C(+25℃)≥0.7		

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	6000h	>200000h	3000h	4000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage Applied current Application temperature	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
	IR	1.2×IR	IR	IR = 0	IR = 0	
	105℃	40℃	105℃	105℃	105℃	

■ Ripple current correction factor

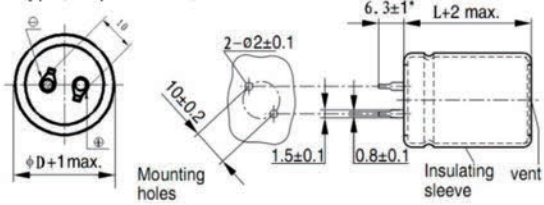
Temp.℃	40	55	85	105
Coefficient	3.0	2.8	2.0	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.16	1.30	1.40

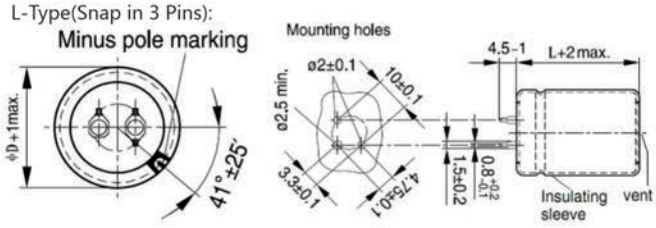
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

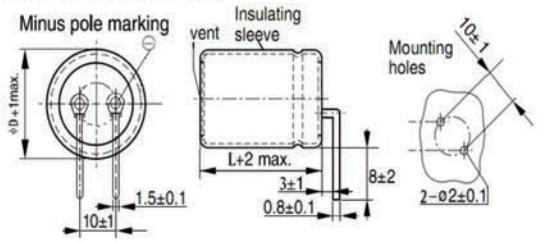
K-Type(Snap in 2 Pins):



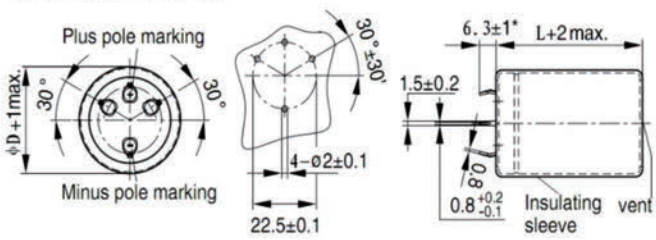
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LRA series: 105℃ 3000 hours,high ripple Snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	560	0.15	354	177	2.30	30x60	LRA2V561MR060***
		0.15	354	177	2.33	35x40	LRA2V561MS040***
	680	0.15	292	145	2.73	35x50	LRA2V681MS050***
		0.15	292	145	2.68	40x40	LRA2V681MB040***
	820	0.15	242	120	2.99	35x60	LRA2V821MS060***
		0.15	242	120	3.05	40x50	LRA2V821MB050***
		0.15	242	120	2.85	45x40	LRA2V821MV040***
	1000	0.15	198	99	3.50	35x65	LRA2V102MS065***
		0.15	198	99	3.37	40x60	LRA2V102MB060***
		0.15	198	99	3.06	45x50	LRA2V102MV050***
	1200	0.15	165	82	3.81	35x80	LRA2V122MS080***
		0.15	165	82	3.81	40x65	LRA2V122MB065***
		0.15	165	82	3.47	45x50	LRA2V122MV050***
	1500	0.15	132	65	4.62	40x80	LRA2V152MB080***
		0.15	132	65	4.27	45x65	LRA2V152MV065***
	1800	0.15	110	54	5.43	40x95	LRA2V182MB095***
		0.15	110	54	4.93	45x80	LRA2V182MV080***
	2200	0.15	89	44	5.86	45x90	LRA2V222MV090***
		0.15	89	44	5.86	50x80	LRA2V222MJ080***
	2700	0.15	73	36	6.77	45x100	LRA2V272MV100***
		0.15	73	36	6.77	50x90	LRA2V272MJ090***
	3300	0.15	59	29	6.77	50x105	LRA2V332MJ105***
400 2G (450)	470	0.15	422	168	2.11	35x45	LRA2G471MS045***
		0.15	422	168	2.14	40x40	LRA2G471MB040***
	560	0.15	354	141	2.48	35x50	LRA2G561MS050***
		0.15	354	141	2.43	40x45	LRA2G561MB045***
		0.15	354	141	2.35	45x40	LRA2G561MV040***
	680	0.15	292	116	2.73	35x60	LRA2G681MS060***
		0.15	292	116	2.78	40x50	LRA2G681MB050***
		0.15	292	116	2.59	45x40	LRA2G681MV040***
	820	0.15	242	96	3.17	35x65	LRA2G821MS065***
		0.15	242	96	3.05	40x55	LRA2G821MB055***
		0.15	242	96	2.77	45x45	LRA2G821MV045***
	1000	0.15	198	79	3.48	35x80	LRA2G102MS080***
		0.15	198	79	3.48	40x65	LRA2G102MB065***
		0.15	198	79	3.17	45x55	LRA2G102MV055***
	1200	0.15	165	65	4.13	35x90	LRA2G122MS090***
		0.15	165	65	4.13	40x80	LRA2G122MB080***
		0.15	165	65	3.70	45x60	LRA2G122MV060***
	1500	0.15	132	52	4.39	40x90	LRA2G152MB090***
		0.15	132	52	4.39	45x75	LRA2G152MV075***
		0.15	132	52	4.39	50x70	LRA2G152MJ070***
	1800	0.15	110	43	5.30	45x90	LRA2G182MV090***
		0.15	110	43	5.30	50x80	LRA2G182MJ080***
	2200	0.15	89	35	5.90	50x90	LRA2G222MJ090***
	2700	0.15	73	28	6.50	50x105	LRA2G272MJ105***

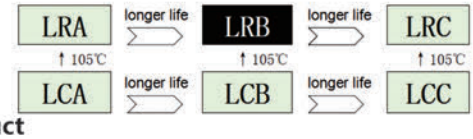
WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (470)	390	0.15	599	220	1.92	35x40	LRA2I391MS040***
		0.15	599	220	1.95	40x35	LRA2I391MB035***
	470	0.15	499	183	2.27	35x45	LRA2I471MS045***
		0.15	499	183	2.23	40x40	LRA2I471MB040***
	560	0.15	419	153	2.56	35x50	LRA2I561MS050***
		0.15	419	153	2.35	45x40	LRA2I561MV040***
	680	0.15	339	126	2.81	35x60	LRA2I681MS060***
		0.15	339	126	2.78	40x50	LRA2I681MB050***
		0.15	339	126	2.52	45x45	LRA2I681MV045***
	820	0.15	289	104	3.26	35x70	LRA2I821MS070***
		0.15	289	104	3.05	40x60	LRA2I821MB060***
		0.15	289	104	2.87	45x50	LRA2I821MV050***
	1000	0.15	239	85	3.67	35x80	LRA2I102MS080***
		0.15	239	85	3.67	40x70	LRA2I102MB070***
		0.15	239	85	3.38	45x60	LRA2I102MV060***
	1200	0.15	199	71	4.33	40x80	LRA2I122MB080***
		0.15	199	71	4.28	45x80	LRA2I122MV080***
	1500	0.15	159	57	4.64	50x70	LRA2I152MJ070***
		0.15	159	57	4.62	50x80	LRA2I152MJ080***
	1800	0.15	129	47	5.42	45x95	LRA2I182MV095***
		0.15	129	47	5.42	50x85	LRA2I182MJ085***
	2200	0.15	129	38	6.00	50x100	LRA2I222MJ100***
450 2W (500)	390	0.15	509	224	2.00	35x40	LRA2W391MS040***
	470	0.15	422	185	2.27	35x45	LRA2W471MS045***
		0.15	422	185	2.23	40x40	LRA2W471MB040***
		0.15	422	185	2.15	45x35	LRA2W471MV035***
	560	0.15	354	165	2.47	35x55	LRA2W561MS055***
		0.15	354	165	2.52	40x50	LRA2W561MB050***
		0.15	354	165	2.35	45x40	LRA2W561MV040***
	680	0.15	292	128	2.89	35x65	LRA2W681MS065***
		0.15	292	128	2.78	40x60	LRA2W681MB060***
		0.15	292	128	2.61	45x50	LRA2W681MV050***
	820	0.15	242	106	3.24	35x75	LRA2W821MS075***
		0.15	242	106	3.24	40x65	LRA2W821MB065***
		0.15	242	106	3.10	45x50	LRA2W821MV050***
	1000	0.15	198	87	3.77	35x90	LRA2W102MS090***
		0.15	198	87	3.77	40x80	LRA2W102MB080***
		0.15	198	87	3.68	45x65	LRA2W102MV065***
	1200	0.15	165	72	4.43	40x95	LRA2W122MB095***
		0.15	165	72	4.23	45x75	LRA2W122MV075***
		0.15	165	72	4.23	50x65	LRA2W122MJ065***
	1500	0.15	132	57	4.84	40x100	LRA2W152MB100***
		0.15	132	57	4.84	45x90	LRA2W152MV090***
		0.15	132	57	4.84	50x80	LRA2W152MJ080***
	1800	0.15	110	48	5.30	45x105	LRA2W182MV105***
		0.15	110	48	5.30	50x90	LRA2W182MJ090***

■ LRA series: 105℃ 3000 hours,high ripple Snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	390	0.15	510	220	1.8	35x50	LRS2H391MS050***
		0.15	510	220	1.8	40x45	LRS2H391MB045***
	470	0.15	420	180	2.0	35x55	LRS2H471MS055***
		0.15	420	180	2.0	40x50	LRS2H471MB050***
		0.15	420	180	2.0	45x40	LRS2H471MV040***
	560	0.15	350	150	2.25	35x65	LRS2H561MS065***
		0.15	350	150	2.25	40x55	LRS2H561MB055***
		0.15	350	150	2.25	45x50	LRS2H561MV050***
	680	0.15	290	120	2.6	35x75	LRS2H681MS075***
		0.15	290	120	2.6	40x70	LRS2H681MB070***
		0.15	290	120	2.6	45x55	LRS2H681MV055***
	820	0.15	240	100	2.85	40x75	LRS2H821MB075***
		0.15	240	100	2.85	45x60	LRS2H821MV060***
	1000	0.15	190	80	3.3	40x90	LRS2H102MB090***
		0.15	190	80	3.3	45x75	LRS2H102MV075***
	1200	0.15	160	70	4.0	40x100	LRS2H122MB100***
		0.15	160	70	4.0	45x85	LRS2H122MV085***
		0.15	160	70	4.0	50x80	LRS2H122MJ080***
	1500	0.15	130	50	4.45	45x100	LRS2H152MV100***
		0.15	130	50	4.45	50x95	LRS2H152MJ095***
	1800	0.15	110	40	4.85	50x105	LRS2H182MJ105***

*** Indicates terminal type, length, and sleeve color.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
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LRB series 105℃ 5000 hours





- **Rohs requirements**
- **105℃ for 5000 hours, high ripple, large size product**
- **Used in switching power supply, servo, inverter and industrial products**

■ Product description

Item	Characteristic			
Operating temperature range	-40℃ ~ +105℃		-25℃ ~ +105℃	
Rated voltage(WV/V)	160V ~ 450V		460V ~ 500V	
Capacitance(CAP/C)	100 ~ 1200μF			
Tolerance(CAP/C)	±20% (25℃, 120Hz)			
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)			
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	160 ~ 450	460 ~ 550	
	DF	0.15	0.15	
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	160 ~ 100	450 ~ 500	550
	Z(-25℃/Z(+25℃)	4	7	10
	Z(-40℃/Z(+25℃)	8	12	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6			
	C(-25℃/C(+25℃)≥0.7			

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	10000h	>250000h	5000h	5000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

■ Ripple current correction factor

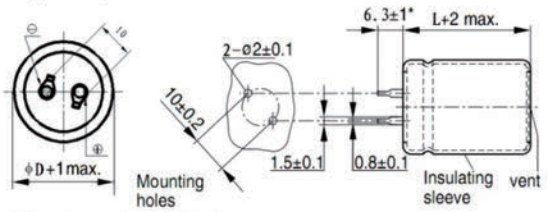
Temp.℃	40	55	85	105
Coefficient	3.0	2.8	2.0	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.15	1.30	1.41

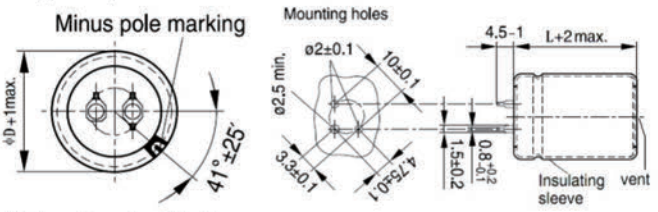
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

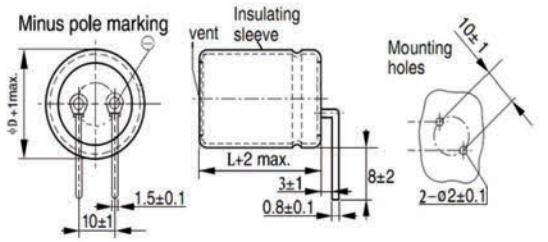
K-Type(Snap in 2 Pins):



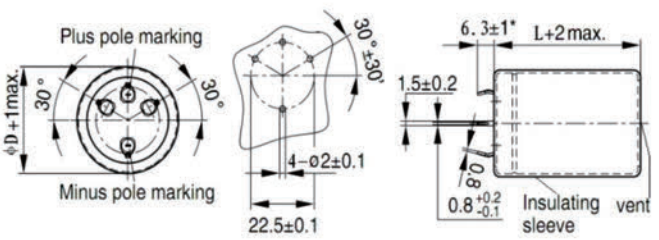
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LRB series:105℃ 5000 hours,high ripple snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
160 2C (200)	470	0.15	423	254	1.5	22x35	LRB2C471MP035***
	560	0.15	355	213	1.7	22x40	LRB2C561MP040***
	680	0.15	293	176	1.9	22x50	LRB2C681MP050***
		0.15	293	176	1.8	25x50	LRB2C681MQ050***
	820	0.15	243	146	2.1	22x60	LRB2C821MP060***
		0.15	243	146	2.1	25x40	LRB2C821MQ040***
	1000	0.15	199	119	2.4	22x60	LRB2C102MP060***
		0.15	199	119	2.4	25x50	LRB2C102MQ050***
		0.15	199	119	2.5	30x35	LRB2C102MR035***
	1200	0.15	166	100	2.8	25x60	LRB2C122MQ060***
		0.15	166	100	2.8	30x40	LRB2C122MR040***
		0.15	166	100	2.8	35x35	LRB2C122MS035***
	1500	0.15	133	80	3.1	30x50	LRB2C152MR050***
		0.15	133	80	3.1	35x35	LRB2C152MS035***
		0.15	133	80	3.2	35x40	LRB2C152MS045***
	1800	0.15	111	66	3.6	30x60	LRB2C182MR060***
		0.15	111	66	3.6	35x40	LRB2C182MS040***
		0.15	111	66	3.5	35x45	LRB2C182MS045***
	2200	0.15	90	54	4.1	30x55	LRB2C222MR055***
		0.15	90	54	4.1	30x60	LRB2C222MR060***
		0.15	90	54	4.0	35x45	LRB2C222MS045***
		0.15	90	54	4.0	35x50	LRB2C222MS050***
	2700	0.15	74	44	4.6	35x50	LRB2C272MS050***
		0.15	74	44	4.8	35x55	LRB2C272MS055***
	3300	0.15	60	36	5.4	35x60	LRB2C332MS060***
200 2D (250)	390	0.15	510	306	1.3	22x35	LRB2D391MP035***
	470	0.15	423	254	1.5	22x40	LRB2D471MP040***
	560	0.15	355	213	1.7	22x45	LRB2D561MP045***
		0.15	355	213	1.6	25x40	LRB2D561MQ040***
	680	0.15	293	176	1.9	22x60	LRB2D681MP060***
		0.15	293	176	1.9	25x60	LRB2D681MQ050***
		0.15	293	176	1.9	30x35	LRB2D681MR035***
	820	0.15	243	146	2.2	25x50	LRB2D821MP050***
		0.15	243	146	2.2	30x40	LRB2D821MQ040***
	1000	0.15	199	119	2.5	25x60	LRB2D102MQ060***
		0.15	199	119	2.5	30x40	LRB2D102MR040***
		0.15	199	119	2.7	35x35	LRB2D102MS035***
		0.15	199	119	2.7	35x40	LRB2D102MS040***
	1200	0.15	166	100	2.7	25x70	LRB2D122MQ070***
		0.15	166	100	2.8	30x50	LRB2D122MR050***
		0.15	166	100	2.8	30x60	LRB2D122MR060***
		0.15	166	100	3.0	35x40	LRB2D122MS040***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
200 2D (250)	1500	0.15	133	80	3.3	30x55	LRB2D152MR055***
		0.15	133	80	3.3	30x60	LRB2D152MR060***
		0.15	133	80	3.4	35x45	LRB2D152MS045***
	1800	0.15	111	66	3.7	30x70	LRB2D182MR070***
		0.15	111	66	3.8	35x50	LRB2D182MS050***
		0.15	111	66	3.8	35x55	LRB2D182MS055***
	2200	0.15	90	54	4.3	35x60	LRB2D222MS060***
		0.15	90	54	4.3	35x70	LRB2D222MS070***
	2700	0.15	74	44	4.9	35x70	LRB2D272MS070***
250 2E (300)	270	0.15	737	442	1.1	22x35	LRB2E271MP035***
	330	0.15	603	362	1.3	22x40	LRB2E331MP040***
	390	0.15	510	306	1.4	22x45	LRB2E391MP045***
		0.15	510	306	1.4	25x35	LRB2E391MQ035***
	470	0.15	423	254	1.6	22x50	LRB2E471MP050***
		0.15	423	254	1.6	25x40	LRB2E471MQ040***
	560	0.15	355	213	1.8	22x55	LRB2E561MP055***
		0.15	355	213	1.8	25x45	LRB2E561MQ045***
		0.15	355	213	1.8	30x35	LRB2E561MR035***
	680	0.15	293	176	2.0	25x50	LRB2E681MQ050***
		0.15	293	176	2.1	30x40	LRB2E681MR040***
		0.15	293	176	2.2	35x35	LRB2E681MS035***
	820	0.15	243	146	2.3	25x55	LRB2E821MQ055***
		0.15	243	146	2.4	30x45	LRB2E821MR045***
		0.15	243	146	2.5	35x40	LRB2E821MS040***
	1000	0.15	199	119	2.7	30x50	LRB2E102MR050***
	1200	0.15	166	100	3.0	35x45	LRB2E122MS045***
		0.15	166	100	3.0	35x50	LRB2E122MS050***
		0.15	166	100	3.2	35x55	LRB2E122MS055***
	1500	0.15	133	80	3.6	35x55	LRB2E152MS055***
	1800	0.15	111	66	4.0	35x60	LRB2E182MS060***
350 2V (400)	560	0.15	355	213	2.0	30x55	LRB2V561MR055***
		0.15	355	213	2.0	35x45	LRB2V561MS045***
	680	0.15	293	176	2.4	30x60	LRB2V681MR060***
		0.15	293	176	2.4	35x50	LRB2V681MS050***
	820	0.15	243	146	2.6	35x55	LRB2V821MS055***
		0.15	243	146	2.6	35x60	LRB2V821MS060***
	1000	0.15	199	119	2.8	35x60	LRB2V102MS060***

■ LRB series:105℃ 5000 hours,high ripple snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
315 2F (368)	180	0.15	1106	663	1.0	22x35	LRB2F181MP035***
	220	0.15	905	543	1.1	22x40	LRB2F221MP040***
	270	0.15	737	442	1.2	22x50	LRB2F271MP050***
		0.15	737	442	1.2	25x35	LRB2F271MQ035**
	330	0.15	603	362	1.4	22x50	LRB2F331MP050***
	390	0.15	510	306	1.6	22x60	LRB2F391MP060***
		0.15	510	306	1.6	25x50	LRB2F391MQ050***
		0.15	510	306	1.6	25x60	LRB2F391MQ060***
	470	0.15	423	254	1.8	25x60	LRB2F471MQ060***
		0.15	423	254	1.8	30x30	LRB2F471MR040***
		0.15	423	254	1.8	35x65	LRB2F471MS035***
	560	0.15	355	213	2.0	25x60	LRB2F561MQ060***
		0.15	355	213	1.9	30x55	LRB2F561MR050***
		0.15	355	213	2.0	35x35	LRB2F561MS035***
	680	0.15	293	176	2.2	30x50	LRB2F681MR050***
		0.15	293	176	2.3	30x60	LRB2F681MR060***
		0.15	293	176	2.2	35x40	LRB2F681MS040***
	820	0.15	243	146	2.5	30x60	LRB2F821MR060***
		0.15	243	146	2.6	35x50	LRB2F821MS050***
	1000	0.15	199	119	2.9	35x60	LRB2F102MS060***
	1200	0.15	166	100	3.3	35x60	LRB2F122MS060***
		0.15	166	100	3.3	40x50	LRB2F122MB050***
350 2V (400)	120	0.15	1659	995	0.7	22x30	LRB2V121MP030***
	150	0.15	1327	796	0.8	22x30	LRB2V151MP030***
	180	0.15	1106	663	0.9	22x35	LRB2V181MP035***
		0.15	1106	663	0.9	25x30	LRB2V181MQ030***
	220	0.15	905	543	1.0	22x40	LRB2V221MP040***
		0.15	905	543	1.0	25x40	LRB2V221MQ040***
		0.15	905	543	1.0	30x25	LRB2V221MR025***
	270	0.15	737	442	1.3	22x45	LRB2V271MP045***
		0.15	737	442	1.3	22x50	LRB2V271MP050***
		0.15	737	442	1.3	25x40	LRB2V271MQ040***
		0.15	737	442	1.3	30x30	LRB2V271MR030***
	330	0.15	603	362	1.4	25x50	LRB2V331MQ050***
		0.15	603	362	1.4	30x40	LRB2V331MQ040***
		0.15	603	362	1.4	35x30	LRB2V331MS030***
	390	0.15	510	306	1.6	25x50	LRB2V391MQ050***
		0.15	510	306	1.6	30x35	LRB2V391MQ035***
		0.15	510	306	1.6	35x30	LRB2V391MR030***
	470	0.15	423	254	1.8	25x60	LRB2V471MQ060***
		0.15	423	254	1.8	30x40	LRB2V471MR040***
		0.15	423	254	1.8	35x35	LRB2V471MS035***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	150	0.15	1327	708	0.9	22x40	LRB2G151MP040***
		0.15	1327	708	0.9	25x30	LRB2G151MQ030***
	180	0.15	1106	590	1.0	22x40	LRB2G181MP040***
		0.15	1106	590	1.0	25x35	LRB2G181MQ035***
	220	0.15	905	483	1.1	22x50	LRB2G221MP050***
		0.15	905	483	1.1	25x35	LRB2G221MQ035***
		0.15	905	483	1.2	30x30	LRB2G221MR030***
	270	0.15	737	393	1.3	22x60	LRB2G271MP060***
		0.15	737	393	1.3	25x50	LRB2G271MQ050***
		0.15	737	393	1.3	30x35	LRB2G271MR035***
	330	0.15	603	322	1.5	25x50	LRB2G331MQ050***
		0.15	603	322	1.4	30x40	LRB2G331MR040***
		0.15	603	322	1.5	35x30	LRB2G331MS030***
	390	0.15	510	272	1.6	25x60	LRB2G391MQ060***
		0.15	510	357	1.6	30x40	LRB2G391MR040***
		0.15	510	272	1.7	35x35	LRB2G391MS035***
	470	0.15	423	226	1.8	30x45	LRB2G471MR045***
		0.15	423	226	1.9	35x35	LRB2G471MS035***
	560	0.15	355	190	2.1	30x60	LRB2G561MR060***
		0.15	355	190	2.1	35x40	LRB2G561MS040***
	680	0.15	293	156	2.4	35x50	LRB2G681MS050***
	820	0.15	243	170	2.7	35x60	LRB2G821MS060***
	1000	0.15	199	106	3.2	35x70	LRB2G102MS070***
	1200	0.15	166	88	3.7	35x80	LRB2G122MS080***
420 2I (470)	100	0.15	1990	1128	0.7	22x30	LRB2I101MP030***
	120	0.15	1659	940	0.8	22x30	LRB2I121MP030***
		0.15	1659	940	0.8	25x25	LRB2I121MQ025***
	150	0.15	1327	752	0.9	22x35	LRB2I151MP035***
	180	0.15	1106	627	1.0	22x40	LRB2I181MP040***
		0.15	1106	627	1.0	25x40	LRB2I181MQ040***
		0.15	1106	627	1.1	30x25	LRB2I181MR025***
	220	0.15	905	513	1.2	22x50	LRB2I221MP050***
		0.15	905	513	1.2	22x60	LRB2I221MP060***
		0.15	905	513	1.2	25x40	LRB2I221MQ040***
		0.15	905	513	1.2	30x30	LRB2I221MR030***
	270	0.15	737	418	1.3	25x50	LRB2I271MQ050***
		0.15	737	418	1.3	30x40	LRB2I271MR040***
		0.15	737	418	1.4	35x25	LRB2I271MS025***
	330	0.15	603	342	1.5	25x50	LRB2I331MQ050***
		0.15	603	342	1.5	30x40	LRB2I331MR040***
		0.15	603	342	1.6	35x30	LRB2I331MS030***

■ LRB series:105℃ 5000 hours,high ripple snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (470)	390	0.15	510	289	1.7	30x50	LRB2I391MR050***
		0.15	510	289	1.7	35x35	LRB2I391MS035***
		0.15	510	289	1.7	35x40	LRB2I391MS040***
	470	0.15	423	240	1.9	30x50	LRB2I471MR050***
		0.15	423	240	2.0	35x40	LRB2I471MS040***
	560	0.15	355	201	2.2	35x50	LRB2I561MS050***
	680	0.15	293	166	2.5	35x60	LRB2I681MS060***
	820	0.15	243	138	3.0	35x60	LRB2I821MS060***
	1000	0.15	199	113	3.4	35x80	LRB2I102MS080***
	1200	0.15	166	94	3.8	35x90	LRB2I122MS090***
450 2W (500)	120	0.15	2212	885	0.8	22x30	LRB2W121MP030***
		0.15	2212	885	0.8	22x35	LRB2W121MP035***
		0.15	2212	885	0.8	25x25	LRB2W121MQ025***
	150	0.15	1769	708	0.9	22x40	LRB2W151MP040***
		0.15	1769	708	0.9	25x30	LRB2W151MQ030***
	180	0.15	1474	590	1.1	22x45	LRB2W181MP045***
		0.15	1474	590	1.1	25x35	LRB2W181MQ035***
		0.15	1474	590	1.1	30x25	LRB2W181MR025***
	220	0.15	1206	483	1.2	22x50	LRB2W221MP050***
		0.15	1206	483	1.2	25x40	LRB2W221MQ040***
		0.15	1206	483	1.2	30x30	LRB2W221MR030***
	270	0.15	983	393	1.3	25x45	LRB2W271MQ045***
		0.15	983	393	1.3	30x35	LRB2W271MR035***
		0.15	983	393	1.4	35x30	LRB2W271MS030***
	330	0.15	804	322	1.5	30x40	LRB2W331MR040***
	390	0.15	680	272	1.7	30x45	LRB2W391MR045***
		0.15	680	272	1.7	35x35	LRB2W391MS035***
		0.15	680	272	1.7	35x40	LRB2W391MS040***
	470	0.15	565	226	2.0	35x40	LRB2W471MS040***
		0.15	565	226	2.0	35x45	LRB2W471MS045***
		0.15	565	226	2.0	35x50	LRB2W471MS050***
	560	0.15	474	190	2.2	35x50	LRB2W561MS050***
	680	0.15	390	156	2.6	35x55	LRB2W681MS055***
		0.15	390	156	2.6	35x60	LRB2W681MS060***
	820	0.15	324	129	3.0	35x65	LRB2W821MS065***
	1000	0.15	265	106	3.4	35x75	LRB2W102MS075***
		0.15	265	106	3.4	40x65	LRB2W102MB065***
	1200	0.15	221	88	3.7	40x75	LRB2W122MB075***

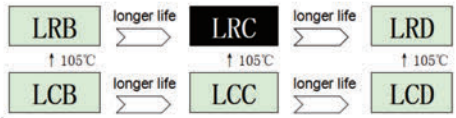
WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	100	0.15	2654	1062	0.8	25x30	LRB2H101MQ030***
	120	0.15	2212	885	0.9	25x35	LRB2H121MQ035***
		0.15	2212	885	0.9	30x30	LRB2H121MR030***
	150	0.15	1769	708	1.0	30x30	LRB2H151MR030***
	180	0.15	1474	590	1.2	30x35	LRB2H181MR035***
	220	0.15	1206	483	1.3	25x50	LRB2H221MQ050***
		0.15	1206	483	1.3	30x40	LRB2H221MR040***
		0.15	1206	483	1.2	35x35	LRB2H221MS035***
	270	0.15	983	393	1.5	30x50	LRB2H271MR050***
		0.15	983	393	1.5	35x40	LRB2H271MS040***
	330	0.15	804	322	1.6	35x45	LRB2H331MS045***
	390	0.15	680	272	1.8	35x50	LRB2H391MS050***
	470	0.15	565	226	2.0	35x55	LRB2H471MS055***
		0.15	565	226	2.0	35x60	LRB2H471MS060***
	560	0.15	474	190	2.2	35x65	LRB2H561MS065***
		0.15	474	190	2.2	40x50	LRB2H561MB050***
	680	0.15	390	156	2.4	35x70	LRB2H681MS070***
		0.15	390	156	2.4	40x60	LRB2H681MB060***
	820	0.15	324	129	2.6	40x70	LRB2H821MB070***
	1000	0.15	265	106	2.8	45x70	LRB2H102MV070***
	1200	0.15	221	88	3.2	45x80	LRB2H122MV080***
550 2Y (600)	270	0.15	1229	590	1.3	35x50	LRB2Y271MS050***
	330	0.15	1005	483	1.4	35x60	LRB2Y331MS060***
	390	0.15	851	408	1.6	35x65	LRB2Y391MS065***
	470	0.15	706	339	1.8	35x70	LRB2Y471MS070***
		0.15	706	339	1.8	40x65	LRB2Y471MB065***
	560	0.15	592	284	2.0	35x80	LRB2Y561MS080***
		0.15	592	284	2.0	40x70	LRB2Y561MB070***
	680	0.15	488	234	2.3	40x80	LRB2Y681MB080***
		0.15	488	234	2.3	45x70	LRB2Y681MV070***

*** Indicates terminal type, length, and sleeve color.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LRC series 105℃ 8000 hours





- **Rohs requirements**
- **105℃ for 8000 hours, high ripple, large size product**
- **Used in switching power supply, servo, inverter，and industrial products**

■ Product description

Item	Characteristic		
Operating temperature range	-40℃ ~ +105℃	-25℃ ~ +105℃	
Rated voltage(WV/V)	160V ~ 450V	460V ~ 500V	
Capacitance(CAP/C)	100 ~ 3300		
Tolerance(CAP/C)	±20% (25℃, 120Hz)		
Leakage current LC/I(25℃，120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)		
Dissipation factor DF/tanδ(25℃，120Hz)	UR(V)	160 ~ 450	460 ~ 550
	DF	0.15	0.15
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	160 ~ 450	460 ~ 550
	Z(-25℃/Z(+25℃)	4	10
	Z(-40℃/Z(+25℃)	8	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6		
	C(-25℃/C(+25℃)≥0.7		

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	10000h	>180000h	8000h	8000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

■ Ripple current correction factor

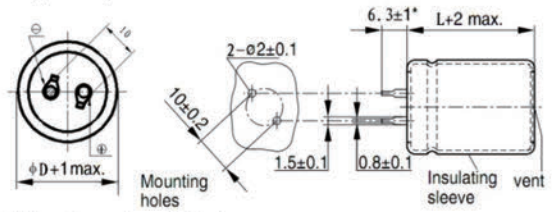
Temp.℃	40	55	85	105
Coefficient	3.0	2.8	2.0	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.16	1.30	1.41

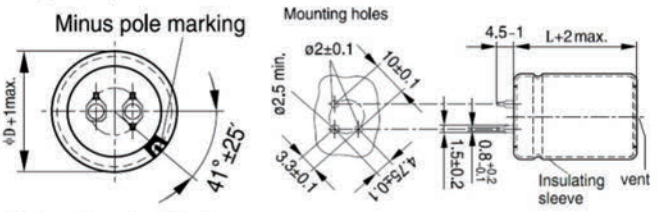
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

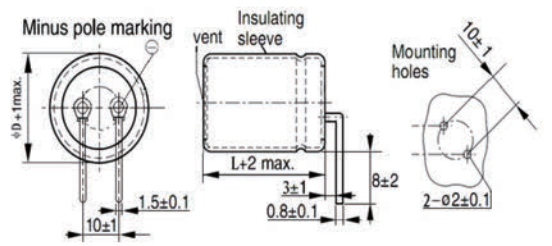
K-Type(Snap in 2 Pins):



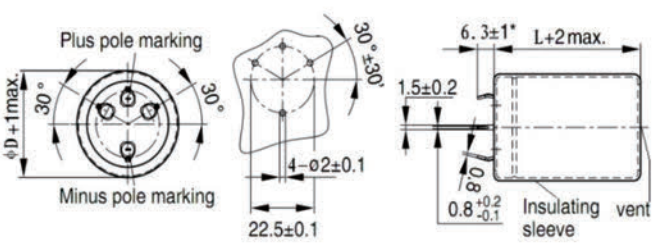
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LRC series:105℃ 8000 hours,long lifetime, high ripple snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
160 2C (200)	470	0.15	423	254	1.5	22x50	LRC2C471MP050***
	560	0.15	355	213	1.7	22x50	LRC2C561MP050***
	680	0.15	293	176	1.9	22x50	LRC2C681MP050***
		0.15	293	176	1.8	25x50	LRC2C681MQ050***
	820	0.15	243	146	2.1	22x60	LRC2C821MP060***
		0.15	243	146	2.1	25x50	LRC2C821MQ050***
	1000	0.15	199	119	2.4	22x60	LRC2C102MP060***
		0.15	199	119	2.4	25x60	LRC2C102MQ060***
		0.15	199	119	2.5	30x45	LRC2C102MR045***
	1200	0.15	166	100	2.8	25x60	LRC2C122MQ060***
		0.15	166	100	2.8	30x40	LRC2C122MR040***
		0.15	166	100	2.8	35x35	LRC2C122MS035***
	1500	0.15	133	80	3.1	25x65	LRC2C152MQ065***
		0.15	133	80	3.1	25x70	LRC2C152MQ070***
		0.15	133	80	3.2	30x50	LRC2C152MR050***
	1800	0.15	111	66	3.6	25x80	LRC2C182MQ080***
		0.15	111	66	3.6	30x60	LRC2C182MR060***
		0.15	111	66	3.5	35x40	LRC2C182MS040***
	2200	0.15	90	54	4.1	30x65	LRC2C222MR065***
		0.15	90	54	4.1	30x70	LRC2C222MR070***
		0.15	90	54	4.0	35x50	LRC2C222MS050***
		0.15	90	54	4.0	35x60	LRC2C222MS060***
	2700	0.15	74	44	4.6	35x60	LRC2C272MS060***
		0.15	74	44	4.8	35x70	LRC2C272MS070***
	3300	0.15	60	36	5.4	35x70	LRC2C332MS070***
200 2D (250)	390	0.15	510	306	1.3	22x50	LRC2D391MP050***
	470	0.15	423	254	1.5	22x50	LRC2D471MP050***
	560	0.15	355	213	1.7	22x60	LRC2D561MP060***
		0.15	355	213	1.6	25x50	LRC2D561MQ050***
	680	0.15	293	176	1.9	22x60	LRC2D681MP060***
		0.15	293	176	1.9	25x50	LRC2D681MQ050***
		0.15	293	176	1.9	30x45	LRC2D681MR045***
	820	0.15	243	146	2.2	22x70	LRC2D821MP070***
		0.15	243	146	2.2	25x60	LRC2D821MQ060***
	1000	0.15	199	119	2.5	25x60	LRC2D102MQ060***
		0.15	199	119	2.5	30x40	LRC2D102MR040***
		0.15	199	119	2.7	35x30	LRC2D102MS030***
		0.15	199	119	2.7	35x40	LRC2D102MS040***
	1200	0.15	166	100	2.7	25x70	LRC2D122MQ070***
		0.15	166	100	2.8	30x50	LRC2D122MR050***
		0.15	166	100	2.8	30x60	LRC2D122MR060***
		0.15	166	100	3.0	35x40	LRC2D122MS040***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
200 2D (250)	1500	0.15	133	80	3.3	30x60	LRC2D152MR060***
		0.15	133	80	3.3	30x65	LRC2D152MR065***
		0.15	133	80	3.4	35x50	LRC2D152MS050***
	1800	0.15	111	66	3.7	30x70	LRC2D182MR070***
		0.15	111	66	3.8	35x55	LRC2D182MS055***
		0.15	111	66	3.8	35x60	LRC2D182MS060***
	2200	0.15	90	54	4.3	35x60	LRC2D222MS060***
		0.15	90	54	4.3	35x65	LRC2D222MS065***
	2700	0.15	74	44	4.9	35x70	LRC2D272MS070***
250 2E (300)	270	0.15	737	442	1.1	22x45	LRC2E271MP045***
	330	0.15	603	362	1.3	22x50	LRC2E331MP050***
	390	0.15	510	306	1.4	22x55	LRC2E391MP055***
		0.15	510	306	1.4	25x45	LRC2E391MQ045***
	470	0.15	423	254	1.6	22x60	LRC2E471MP060***
		0.15	423	254	1.6	25x50	LRC2E471MQ050***
	560	0.15	355	213	1.8	22x65	LRC2E561MP065***
		0.15	355	213	1.8	25x55	LRC2E561MQ055***
		0.15	355	213	1.8	30x35	LRC2E561MR035***
	680	0.15	293	176	2.0	25x60	LRC2E681MQ060***
		0.15	293	176	2.1	30x40	LRC2E681MR040***
		0.15	293	176	2.2	35x30	LRC2E681MS030***
	820	0.15	243	146	2.3	25x65	LRC2E821MQ065***
		0.15	243	146	2.4	30x45	LRC2E821MR045***
		0.15	243	146	2.5	35x35	LRC2E821MS035***
	1000	0.15	199	119	2.7	30x50	LRC2E102MR050***
	1200	0.15	166	100	3.0	30x60	LRC2E122MR060***
		0.15	166	100	3.0	35x50	LRC2E122MS050***
		0.15	166	100	3.2	35x60	LRC2E122MS060***
	1500	0.15	133	80	3.6	35x60	LRC2E152MS060***
	1800	0.15	111	66	4.0	35x60	LRC2E182MS060***
315 2F (365)	180	0.15	1106	663	1.0	22x50	LRC2F181MP050***
	220	0.15	905	543	1.1	22x50	LRC2F221MP050***
	270	0.15	737	442	1.2	22x55	LRC2F271MP055***
		0.15	737	442	1.2	25x50	LRC2F271MQ050***
	330	0.15	603	362	1.4	22x60	LRC2F331MP060***
	390	0.15	510	306	1.6	22x65	LRC2F391MP065***
		0.15	510	306	1.6	22x70	LRC2F391MP070***
		0.15	510	306	1.6	25x60	LRC2F391MQ060***
	470	0.15	423	254	1.8	22x70	LRC2F471MP070***
		0.15	423	254	1.8	25x50	LRC2F471MQ050***
		0.15	423	254	1.8	30x40	LRC2F471MR040***
		0.15	423	254	1.4	35x30	LRC2F471MS030***

■ LRC series:105℃ 8000 hours,long lifetime, high ripple snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
315 2F (365)	560	0.15	355	213	2.0	25x70	LRC2F561MQ070***
		0.15	355	213	1.9	30x50	LRC2F561MR050***
		0.15	355	213	2.0	35x40	LRC2F561MS040***
	680	0.15	293	176	2.2	30x50	LRC2F681MR050***
		0.15	293	176	2.3	30x60	LRC2F681MR060***
		0.15	293	176	2.2	35x40	LRC2F681MS040***
	820	0.15	243	146	2.5	30x60	LRC2F821MR060***
		0.15	243	146	2.6	35x45	LRC2F821MS045***
	1000	0.15	199	119	2.9	35x50	LRC2F102MS050***
	1200	0.15	166	100	3.3	35x60	LRC2F122MS060***
		0.15	166	100	3.3	35x70	LRC2F122MS070***
350 2V (400)	120	0.15	1659	995	0.7	22x50	LRC2V121MP050***
	150	0.15	1327	796	0.8	22x50	LRC2V151MP050***
	180	0.15	1106	663	0.9	22x60	LRC2V181MP060***
		0.15	1106	663	0.9	25x60	LRC2V181MQ060***
	220	0.15	905	543	1.0	22x60	LRC2V221MP060***
		0.15	905	543	1.0	25x50	LRC2V221MQ050***
		0.15	905	543	1.0	30x35	LRC2V221MR035***
	270	0.15	737	442	1.3	22x70	LRC2V271MP070***
		0.15	737	442	1.3	22x80	LRC2V271MP080***
		0.15	737	442	1.3	25x60	LRC2V271MQ060***
		0.15	737	442	1.3	30x40	LRC2V271MR040***
	330	0.15	603	362	1.4	22x70	LRC2V331MP070***
		0.15	603	362	1.4	25x60	LRC2V331MQ060***
		0.15	603	362	1.4	30x40	LRC2V331MR040***
	390	0.15	510	306	1.6	25x60	LRC2V391MQ060***
		0.15	510	306	1.6	25x70	LRC2V391MQ070***
		0.15	510	306	1.6	30x45	LRC2V391MR045***
	470	0.15	423	254	1.8	25x70	LRC2V471MQ070***
		0.15	423	254	1.8	30x45	LRC2V471MR045***
		0.15	423	254	1.8	35x50	LRC2V471MS050***
	560	0.15	355	213	2.0	30x60	LRC2V561MR060***
		0.15	355	213	2.0	35x40	LRC2V561MS040***
	680	0.15	293	176	2.4	30x60	LRC2V681MR060***
		0.15	293	176	2.4	35x50	LRC2V681MS050***
	820	0.15	243	146	2.6	35x50	LRC2V821MS050***
		0.15	243	146	2.6	35x60	LRC2V821MS060***
	1000	0.15	199	119	2.8	35x60	LRC2V102MS060***
		0.15	199	119	2.8	40x50	LRC2V102MB050***
	1200	0.15	141	91	3.0	35x70	LRC2V122MS070***
		0.15	141	91	3.0	40x60	LRC2V122MB060***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	150	0.15	1327	708	0.9	22x50	LRC2G151MP050***
		0.15	1327	708	0.9	25x45	LRC2G151MQ045***
	180	0.15	1106	590	1.0	22x60	LRC2G181MP060***
		0.15	1106	590	1.0	25x50	LRC2G181MQ050***
	220	0.15	905	483	1.1	22x60	LRC2G221MP060***
		0.15	905	483	1.1	25x50	LRC2G221MQ050***
		0.15	905	483	1.2	30x50	LRC2G221MR050***
	270	0.15	737	393	1.3	22x70	LRC2G271MP070***
		0.15	737	393	1.3	25x60	LRC2G271MQ060***
		0.15	737	393	1.3	30x40	LRC2G271MR040***
	330	0.15	603	322	1.5	25x60	LRC2G331MQ060***
		0.15	603	322	1.4	30x40	LRC2G331MR040***
		0.15	603	322	1.5	35x30	LRC2G331MS030***
	390	0.15	510	272	1.6	25x70	LRC2G391MQ070***
		0.15	510	357	1.6	30x45	LRC2G391MR045***
		0.15	510	272	1.7	35x40	LRC2G391MS040***
	470	0.15	423	226	1.8	30x60	LRC2G471MR060***
		0.15	423	226	1.9	35x40	LRC2G471MS040***
	560	0.15	355	190	2.1	30x60	LRC2G561MR060***
		0.15	355	190	2.1	35x50	LRC2G561MS050***
	680	0.15	293	156	2.4	35x50	LRC2G681MS050***
	820	0.15	243	170	2.7	35x60	LRC2G821MS060***
	1000	0.15	199	106	3.2	35x70	LRC2G102MS070***
	1200	0.15	166	88	3.7	35x80	LRC2G122MS080***
420 2I (470)	100	0.15	1990	1128	0.7	22x50	LRC2I101MP050***
	120	0.15	1659	940	0.8	22x50	LRC2I121MP050***
		0.15	1659	940	0.8	25x50	LRC2I121MQ050***
	150	0.15	1327	752	0.9	22x60	LRC2I151MP060***
	180	0.15	1106	627	1.0	22x60	LRC2I181MP060***
		0.15	1106	627	1.0	25x50	LRC2I181MQ050***
		0.15	1106	627	1.1	30x40	LRC2I181MR040***
	220	0.15	905	513	1.2	22x70	LRC2I221MP070***
		0.15	905	513	1.2	22x80	LRC2I221MP080***
		0.15	905	513	1.2	25x60	LRC2I221MQ060***
		0.15	905	513	1.2	30x40	LRC2I221MR040***
	270	0.15	737	418	1.3	25x60	LRC2I271MQ060***
		0.15	737	418	1.3	30x40	LRC2I271MR040***
		0.15	737	418	1.4	35x30	LRC2I271MS030***
	330	0.15	603	342	1.5	25x70	LRC2I331MQ070***
		0.15	603	342	1.5	30x50	LRC2I331MR050***
		0.15	603	342	1.6	35x35	LRC2I331MS035***

■ LRC产品规格表:105℃ 8000小时 耐大纹波产品

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (470)	390	0.15	510	289	1.7	30x50	LRC2I391MR050***
		0.15	510	289	1.7	35x35	LRC2I391MS035***
		0.15	510	289	1.7	35x40	LRC2I391MS040***
	470	0.15	423	240	1.9	30x60	LRC2I471MR060***
		0.15	423	240	2.0	35x45	LRC2I471MS045***
	560	0.15	355	201	2.2	35x45	LRC2I561MS045***
	680	0.15	293	166	2.5	35x55	LRC2I681MS055***
	820	0.15	243	138	3.0	35x60	LRC2I821MS060***
	1000	0.15	199	113	3.4	35x70	LRC2I102MS070***
	1200	0.15	166	94	3.8	35x80	LRC2I122MS080***
450 2W (500)	120	0.15	2212	885	0.8	22x50	LRC2W121MP050***
		0.15	2212	885	0.8	22x55	LRC2W121MP055***
		0.15	2212	885	0.8	25x45	LRC2W121MQ045***
	150	0.15	1769	708	0.9	22x60	LRC2W151MP060***
		0.15	1769	708	0.9	25x50	LRC2W151MQ050***
	180	0.15	1474	590	1.1	22x65	LRC2W181MP065***
		0.15	1474	590	1.1	25x55	LRC2W181MQ055***
		0.15	1474	590	1.1	30x35	LRC2W181MR035***
	220	0.15	1206	483	1.2	22x70	LRC2W221MP070***
		0.15	1206	483	1.2	25x60	LRC2W221MQ060***
		0.15	1206	483	1.2	30x40	LRC2W221MR040***
	270	0.15	983	393	1.3	25x65	LRC2W271MQ065***
		0.15	983	393	1.3	30x45	LRC2W271MR045***
		0.15	983	393	1.4	35x35	LRC2W271MS035***
	330	0.15	804	322	1.5	30x50	LRC2W331MR050***
	390	0.15	680	272	1.7	30x55	LRC2W391MR055***
		0.15	680	272	1.7	35x40	LRC2W391MS040***
		0.15	680	272	1.7	35x45	LRC2W391MS045***
	470	0.15	565	226	2.0	35x45	LRC2W471MS045***
		0.15	565	226	2.0	35x50	LRC2W471MS050***
		0.15	565	226	2.0	35x55	LRC2W471MS055***
	560	0.15	474	190	2.2	35x55	LRC2W561MS055***
	680	0.15	390	156	2.6	35x60	LRC2W681MS060***
		0.15	390	156	2.6	35x65	LRC2W681MS065***
	820	0.15	324	129	3.0	35x70	LRC2W821MS070***
	1000	0.15	265	106	3.4	35x80	LRC2W102MS080***
		0.15	265	106	3.4	40x70	LRC2W102MB070***
	1200	0.15	221	88	3.7	35x100	LRC2W122MS100***
		0.15	221	88	3.7	40x80	LRC2W122MB080***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	100	0.15	2654	1062	0.8	25x50	LRC2H101MQ050***
	120	0.15	2212	885	0.9	25x60	LRC2H121MQ060***
		0.15	2212	885	0.9	30x40	LRC2H121MR040***
	150	0.15	1769	708	1.0	30x40	LRC2H151MR040***
	180	0.15	1474	590	1.2	30x50	LRC2H181MR050***
	220	0.15	1206	483	1	25x70	LRC2H221MQ070***
		0.15	1206	483	1.3	30x50	LRC2H221MR050***
		0.15	1206	483	1.2	35x40	LRC2H221MS040***
	270	0.15	983	393	1.5	30x60	LRC2H271MR060***
		0.15	983	393	1.5	35x50	LRC2H271MS050***
	330	0.15	804	322	1.6	35x50	LRC2H331MS050***
	390	0.15	680	272	1.8	35x60	LRC2H391MS060***
	470	0.15	565	226	2.0	35x60	LRC2H471MS060***
		0.15	565	226	2.0	35x70	LRC2H471MS070***
	560	0.15	474	190	2.2	35x70	LRC2H561MS070***
		0.15	474	190	2.2	40x60	LRC2H561MB060***
	680	0.15	390	156	2.4	35x80	LRC2H681MS080***
		0.15	390	156	2.4	40x70	LRC2H681MB070***
	820	0.15	324	129	2.6	35x100	LRC2H821MS100***
		0.15	324	129	2.6	40x80	LRC2H821MB080***
	1000	0.15	265	106	2.8	40x100	LRC2H102MB100***
		0.15	265	106	2.8	45x80	LRC2H102MV080***
	1200	0.15	128	88	3.2	45x90	LRC2H122MV090***
	1500	0.15	128	68	3.6	45x110	LRC2H152MV110***
550 2Y (600)	180	0.15	2108	881	0.8	35x40	LRC2Y181MS040***
	220	0.15	1750	698	1.1	35x50	LRC2Y221MS050***
	270	0.15	1229	590	1.3	35x60	LRC2Y271MS060***
	330	0.15	1005	483	1.4	35x70	LRC2Y331MS070***
	390	0.15	851	408	1.6	35x70	LRC2Y391MS070***
	470	0.15	706	339	1.8	35x80	LRC2Y471MS080***
		0.15	706	339	1.8	40x70	LRC2Y471MB070***
	560	0.15	592	284	2.0	35x90	LRC2Y561MS090***
		0.15	592	284	2.0	40x80	LRC2Y561MB080***
	680	0.15	488	234	2.3	40x90	LRC2Y681MB090***
		0.15	488	234	2.3	45x80	LRC2Y681MV080***
	820	0.15	320	189	2.6	40x100	LRC2Y821MB100***
		0.15	320	189	2.6	45x90	LRC2Y821MV090***
	1000	0.15	280	161	2.9	40x100	LRC2Y102MB100***
		0.15	280	161	2..9	45x90	LRC2Y102MV090***

*** Indicates terminal type, length, and sleeve color.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LRD series 105℃ 10000 hours

LRC longer life LRD longer life LRE
↑105℃ ↑105℃ ↑105℃
LCC longer life LCD longer life LCE



- Rohs requirements
- 105℃ for 10000 hours,high ripple product
- Used for industrial products such as power supply, servo, inverter and other industrial products

■ Product description

Item	Characteristic		
Operating temperature range	-40℃ ~ +105℃	-25℃ ~ +105℃	
Rated voltage(WV/V)	160V ~ 450V	460V ~ 550V	
Capacitance(CAP/C)	100 ~ 3300μF		
Tolerance(CAP/C)	±20% (25℃, 120Hz)		
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)		
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	160 ~ 450	460 ~ 550
	DF	0.15	0.15
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	160 ~ 450	460 ~ 550
	Z(-25℃/Z(+25℃)	4	10
	Z(-40℃/Z(+25℃)	8	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6		
	C(-25℃/C(+25℃)≥0.7		

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	12000h	>220000h	10000h	10000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

■ Ripple current correction factor

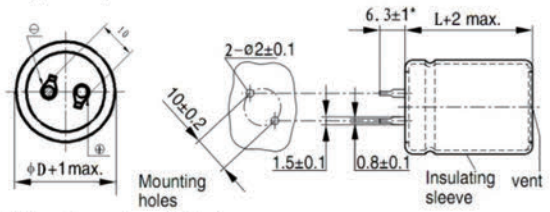
Temp.℃	40	55	85	105
Coefficient	3.0	2.8	2.0	1.0

Freq.	50/60Hz	120Hz	1KHz	10KHz	≥50KHz
Coefficient	0.80	1.00	1.30	1.41	1.43

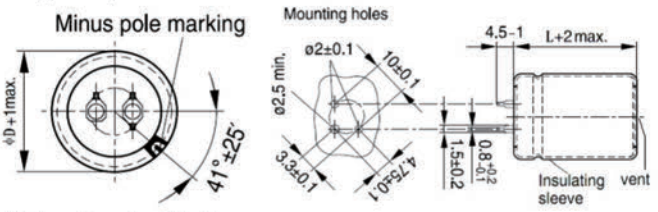
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

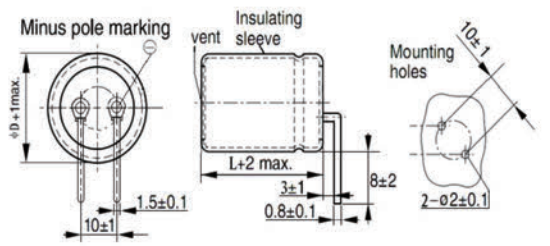
K-Type(Snap in 2 Pins):



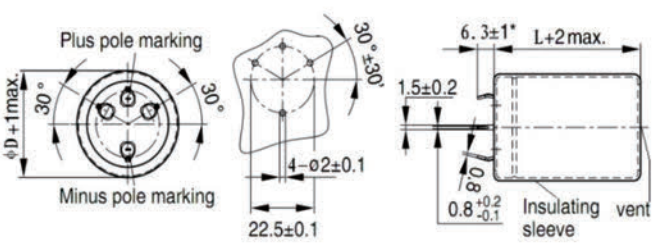
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LRD series:105℃ 10000 hours,long lifetime,high ripple snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
160 2C (200)	470	0.15	423	254	1.5	25x40	LRD2C471MQ040***
	560	0.15	355	213	1.7	25x50	LRD2C561MQ050***
	680	0.15	293	176	1.9	25x60	LRD2C681MQ060***
		0.15	293	176	1.8	30x50	LRD2C681MR050***
	820	0.15	243	146	2.1	25x60	LRD2C821MQ060***
		0.15	243	146	2.1	30x50	LRD2C821MR050***
	1000	0.15	199	119	2.4	25x60	LRD2C102MQ060***
		0.15	199	119	2.4	30x50	LRD2C102MR050***
		0.15	199	119	2.5	35x40	LRD2C102MS040***
	1200	0.15	166	100	2.8	25x60	LRD2C122MQ060***
		0.15	166	100	2.8	30x50	LRD2C122MR050***
		0.15	166	100	2.8	35x40	LRD2C122MS040***
	1500	0.15	133	80	3.1	30x70	LRD2C152MR070***
		0.15	133	80	3.1	35x50	LRD2C152MS050***
		0.15	133	80	3.2	35x60	LRD2C152MS060***
	1800	0.15	111	66	3.6	30x60	LRD2C182MR060***
		0.15	111	66	3.6	30x70	LRD2C182MR070***
		0.15	111	66	3.5	35x50	LRD2C182MS050***
	2200	0.15	90	54	4.1	30x70	LRD2C222MR070***
		0.15	90	54	4.1	30x80	LRD2C222MR080***
		0.15	90	54	4.0	35x60	LRD2C222MS060***
		0.15	90	54	4.0	35x65	LRD2C222MS065***
	2700	0.15	74	44	4.6	35x65	LRD2C272MS065***
		0.15	74	44	4.8	35x70	LRD2C272MS070***
	3300	0.15	60	36	5.4	35x80	LRD2C332MS080***
200 2D (250)	390	0.15	510	306	1.3	25x50	LRD2D391MQ050***
	470	0.15	423	254	1.5	25x50	LRD2D471MQ050***
	560	0.15	355	213	1.7	25x60	LRD2D561MQ060***
		0.15	355	213	1.6	30x40	LRD2D561MR040***
	680	0.15	293	176	1.9	25x60	LRD2D681MQ060***
		0.15	293	176	1.9	30x50	LRD2D681MR050***
		0.15	293	176	1.9	35x40	LRD2D681MS040***
	820	0.15	243	146	2.2	25x60	LRD2D821MQ060***
		0.15	243	146	2.2	30x50	LRD2D821MR050***
	1000	0.15	199	119	2.5	30x60	LRD2D102MR060***
		0.15	199	119	2.5	30x65	LRD2D102MR065***
		0.15	199	119	2.7	35x40	LRD2D102MS040***
		0.15	199	119	2.7	35x45	LRD2D102MS045***
	1200	0.15	166	100	2.7	30x60	LRD2D122MR060***
		0.15	166	100	2.8	30x65	LRD2D122MR065***
		0.15	166	100	2.8	35x40	LRD2D122MS040***
		0.15	166	100	3.0	35x45	LRD2D122MS045***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
200 2D (250)	1500	0.15	133	80	3.3	30x70	LRD2D152MR070***
		0.15	133	80	3.3	30x75	LRD2D152MR075***
		0.15	133	80	3.4	35x60	LRD2D152MS060***
	1800	0.15	111	66	3.7	30x80	LRD2D182MR080***
		0.15	111	66	3.8	35x60	LRD2D182MS060***
		0.15	111	66	3.8	35x70	LRD2D182MS070***
	2200	0.15	90	54	4.3	35x70	LRD2D222MS070***
		0.15	90	54	4.3	35x80	LRD2D222MS080***
	2700	0.15	74	44	4.9	35x80	LRD2D272MS080***
250 2E (300)	270	0.15	737	442	1.1	22x45	LRD2E271MP045***
	330	0.15	603	362	1.3	22x50	LRD2E331MP050***
	390	0.15	510	306	1.4	22x55	LRD2E391MP055***
		0.15	510	306	1.4	25x45	LRD2E391MQ045***
	470	0.15	423	254	1.6	22x60	LRD2E471MP060***
		0.15	423	254	1.6	25x50	LRD2E471MQ050***
	560	0.15	355	213	1.8	22x70	LRD2E561MP070***
		0.15	355	213	1.8	25x60	LRD2E561MQ060***
		0.15	355	213	1.8	30x35	LRD2E561MR035***
	680	0.15	293	176	2.0	25x60	LRD2E681MQ060***
		0.15	293	176	2.1	30x50	LRD2E681MR050***
		0.15	293	176	2.2	35x30	LRD2E681MS030***
	820	0.15	243	146	2.3	25x65	LRD2E821MQ065***
		0.15	243	146	2.4	30x50	LRD2E821MR050***
		0.15	243	146	2.5	35x35	LRD2E821MS035***
	1000	0.15	199	119	2.7	30x60	LRD2E102MR060***
	1200	0.15	166	100	3.0	30x60	LRD2E122MR060***
		0.15	166	100	3.0	35x40	LRD2E122MS040***
		0.15	166	100	3.2	35x50	LRD2E122MS050***
	1500	0.15	133	80	3.6	35x60	LRD2E152MS060***
	1800	0.15	111	66	4.0	35x70	LRD2E182MS070***
315 2F (365)	180	0.15	1106	663	1.0	22x50	LRD2F181MP050***
	220	0.15	905	543	1.1	22x50	LRD2F221MP050***
	270	0.15	737	442	1.2	22x60	LRD2F271MP060***
		0.15	737	442	1.2	25x50	LRD2F271MQ050***
	330	0.15	603	362	1.4	25x50	LRD2F331MQ050***
	390	0.15	510	306	1.6	25x60	LRD2F391MQ060***
		0.15	510	306	1.6	30x50	LRD2F391MR050***
		0.15	510	306	1.6	35x40	LRD2F391MS040***
	470	0.15	423	254	1.8	25x60	LRD2F471MQ060***
		0.15	423	254	1.8	30x50	LRD2F471MR050***
		0.15	423	254	1.8	35x35	LRD2F471MS035***
		0.15	603	362	1.4	35x40	LRD2F471MS040***

■ LRD series:105℃ 10000 hours,long lifetime,high ripple snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
315 2F (365)	560	0.15	355	213	2.0	25x70	LRD2F561MQ070***
		0.15	355	213	1.9	30x50	LRD2F561MR050***
		0.15	355	213	2.0	35x40	LRD2F561MS040***
	680	0.15	293	176	2.2	30x60	LRD2F681MR060***
		0.15	293	176	2.3	30x65	LRD2F681MR065***
		0.15	293	176	2.2	35x50	LRD2F681MS050***
	820	0.15	243	146	2.5	30x70	LRD2F821MR070***
		0.15	243	146	2.6	35x50	LRD2F821MS050***
	1000	0.15	199	119	2.9	35x60	LRD2F102MS060***
	1200	0.15	166	100	3.3	35x70	LRD2F122MS070***
		0.15	166	100	3.3	35x80	LRD2F122MS080***
350 2V (400)	120	0.15	1659	995	0.7	22x50	LRD2V121MP050***
	150	0.15	1327	796	0.8	22x50	LRD2V151MP050***
	180	0.15	1106	663	0.9	22x60	LRD2V181MP060***
		0.15	1106	663	0.9	25x60	LRD2V181MQ060***
	220	0.15	905	543	1.0	22x60	LRD2V221MP060***
		0.15	905	543	1.0	25x50	LRD2V221MQ050***
		0.15	905	543	1.0	30x35	LRD2V221MR035***
	270	0.15	737	442	1.3	22x70	LRD2V271MP070***
		0.15	737	442	1.3	25x60	LRD2V271MQ060***
		0.15	737	442	1.3	30x50	LRD2V271MR050***
		0.15	737	442	1.3	35x35	LRD2V271MS035***
	330	0.15	603	362	1.4	25x60	LRD2V331MQ060***
		0.15	603	362	1.4	30x50	LRD2V331MR050***
		0.15	603	362	1.4	35x40	LRD2V331MS040***
	390	0.15	510	306	1.6	25x60	LRD2V391MQ060***
		0.15	510	306	1.6	30x50	LRD2V391MR050***
		0.15	510	306	1.6	35x40	LRD2V391MS040***
	470	0.15	423	254	1.8	25x70	LRD2V471MQ070***
		0.15	423	254	1.8	30x60	LRD2V471MR060***
		0.15	423	254	1.8	35x50	LRD2V471MS050***
	560	0.15	355	213	2.0	30x60	LRD2V561MR060***
		0.15	355	213	2.0	35x50	LRD2V561MS050***
	680	0.15	293	176	2.4	30x70	LRD2V681MR070***
		0.15	293	176	2.4	35x60	LRD2V681MS060***
	820	0.15	243	146	2.6	35x60	LRD2V821MS060***
		0.15	243	146	2.6	35x70	LRD2V821MS070***
	1000	0.15	199	119	2.8	35x70	LRD2V102MS070***
		0.15	199	119	2.8	40x60	LRD2V102MB060***
	1200	0.15	141	91	3.0	35x80	LRD2V122MS080***
		0.15	141	91	3.0	40x70	LRD2V122MB070***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	150	0.15	1327	708	0.9	25x50	LRD2G151MQ050***
		0.15	1327	708	0.9	30x40	LRD2G151MR040***
	180	0.15	1106	590	1.0	25x50	LRD2G181MQ050***
		0.15	1106	590	1.0	30x40	LRD2G181MR040***
	220	0.15	905	483	1.1	25x50	LRD2G221MQ050***
		0.15	905	483	1.1	30x50	LRD2G221MR050***
		0.15	905	483	1.2	35x40	LRD2G221MS040***
	270	0.15	737	393	1.3	25x60	LRD2G271MQ060***
		0.15	737	393	1.3	30x50	LRD2G271MR050***
		0.15	737	393	1.3	35x40	LRD2G271MS040***
	330	0.15	603	322	1.5	25x60	LRD2G331MQ060***
		0.15	603	322	1.4	30x60	LRD2G331MR060***
		0.15	603	322	1.5	35x40	LRD2G331MS040***
	390	0.15	510	272	1.6	25x70	LRD2G391MQ070***
		0.15	510	357	1.6	30x60	LRD2G391MR060***
		0.15	510	272	1.7	35x50	LRD2G391MS050***
	470	0.15	423	226	1.8	30x60	LRD2G471MR060***
		0.15	423	226	1.9	35x50	LRD2G471MS050***
	560	0.15	355	190	2.1	30x70	LRD2G561MR070***
		0.15	355	190	2.1	35x60	LRD2G561MS060***
	680	0.15	293	156	2.4	35x60	LRD2G681MS060***
	820	0.15	243	170	2.7	35x70	LRD2G821MS070***
	1000	0.15	199	106	3.2	35x80	LRD2G102MS080***
	1200	0.15	166	88	3.7	35x90	LRD2G122MS090***
420 2I (470)	100	0.15	1990	1128	0.7	22x50	LRD2I101MP050***
	120	0.15	1659	940	0.8	22x50	LRD2I121MP050***
		0.15	1659	940	0.8	25x50	LRD2I121MQ050***
	150	0.15	1327	752	0.9	25x50	LRD2I151MQ050***
	180	0.15	1106	627	1.0	22x60	LRD2I181MP060***
		0.15	1106	627	1.0	25x50	LRD2I181MQ050***
		0.15	1106	627	1.1	30x40	LRD2I181MR040***
	220	0.15	905	513	1.2	22x70	LRD2I221MP070***
		0.15	905	513	1.2	25x70	LRD2I221MQ070***
		0.15	905	513	1.2	30x50	LRD2I221MR050***
		0.15	905	513	1.2	35x35	LRD2I221MS035***
	270	0.15	737	418	1.3	25x70	LRD2I271MQ070***
		0.15	737	418	1.3	30x50	LRD2I271MR050***
		0.15	737	418	1.4	35x40	LRD2I271MS040***
	330	0.15	603	342	1.5	25x70	LRD2I331MQ070***
		0.15	603	342	1.5	30x50	LRD2I331MR050***
		0.15	603	342	1.6	35x40	LRD2I331MS040***

■ LRD series:105℃ 10000 hours,long lifetime,high ripple snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (470)	390	0.15	510	289	1.7	30x50	LRD2I391MR050***
		0.15	510	289	1.7	35x40	LRD2I391MS040***
		0.15	510	289	1.7	35x45	LRD2I391MS045***
	470	0.15	423	240	1.9	30x60	LRD2I471MR060***
		0.15	423	240	2.0	35x50	LRD2I471MS050***
	560	0.15	355	201	2.2	35x50	LRD2I561MS050***
	680	0.15	293	166	2.5	35x60	LRD2I681MS060***
	820	0.15	243	138	3.0	35x70	LRD2I821MS070***
	1000	0.15	199	113	3.4	35x90	LRD2I102MS090***
	1200	0.15	166	94	3.8	35x100	LRD2I122MS100***
450 2W (500)	120	0.15	2212	885	0.8	22x50	LRD2W121MP050***
		0.15	2212	885	0.8	22x55	LRD2W121MP055***
		0.15	2212	885	0.8	25x45	LRD2W121MQ045***
	150	0.15	1769	708	0.9	22x60	LRD2W151MP060***
		0.15	1769	708	0.9	25x50	LRD2W151MQ050***
	180	0.15	1474	590	1.1	25x60	LRD2W181MQ060***
		0.15	1474	590	1.1	30x50	LRD2W181MR050***
		0.15	1474	590	1.1	35x35	LRD2W181MS035***
	220	0.15	1206	483	1.2	25x60	LRD2W221MQ060***
		0.15	1206	483	1.2	30x50	LRD2W221MR050***
		0.15	1206	483	1.2	35x35	LRD2W221MS035***
	270	0.15	983	393	1.3	25x65	LRD2W271MQ065***
		0.15	983	393	1.3	30x50	LRD2W271MR050***
		0.15	983	393	1.4	35x40	LRD2W271MS040***
	330	0.15	804	322	1.5	35x40	LRD2W331MS040***
	390	0.15	680	272	1.7	30x60	LRD2W391MR060***
		0.15	680	272	1.7	35x40	LRD2W391MS040***
		0.15	680	272	1.7	35x45	LRD2W391MS045***
	470	0.15	565	226	2.0	30x70	LRD2W471MR070***
		0.15	565	226	2.0	35x55	LRD2W471MS055***
		0.15	565	226	2.0	35x60	LRD2W471MS060***
	560	0.15	474	190	2.2	35x70	LRD2W561MS070***
	680	0.15	390	156	2.6	35x80	LRD2W681MS080***
		0.15	390	156	2.6	35x90	LRD2W681MS090***
	820	0.15	324	129	3.0	35x90	LRD2W821MS090***
	1000	0.15	265	106	3.4	35x100	LRD2W102MS100***
		0.15	265	106	3.4	40x80	LRD2W102MB080***
	1200	0.15	221	88	3.7	35x110	LRD2W122MS110***
		0.15	221	88	3.7	40x90	LRD2W122MB090***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	100	0.15	2654	1062	0.8	25x50	LRD2H101MQ050***
	120	0.15	2212	885	0.9	25x60	LRD2H121MQ060***
		0.15	2212	885	0.9	30x40	LRD2H121MR040***
	150	0.15	1769	708	1.0	30x40	LRD2H151MR040***
	180	0.15	1474	590	1.2	30x50	LRD2H181MR050***
	220	0.15	1206	483	1	25x70	LRD2H221MQ070***
		0.15	1206	483	1.3	30x50	LRD2H221MR050***
		0.15	1206	483	1.2	35x40	LRD2H221MS040***
	270	0.15	983	393	1.5	30x60	LRD2H271MR060***
		0.15	983	393	1.5	35x50	LRD2H271MS050***
	330	0.15	804	322	1.6	35x50	LRD2H331MS050***
	390	0.15	680	272	1.8	35x60	LRD2H391MS060***
	470	0.15	565	226	2.0	35x60	LRD2H471MS060***
		0.15	565	226	2.0	35x70	LRD2H471MS070***
	560	0.15	474	190	2.2	35x70	LRD2H561MS070***
		0.15	474	190	2.2	40x60	LRD2H561MB060***
	680	0.15	390	156	2.4	35x80	LRD2H681MS080***
		0.15	390	156	2.4	40x70	LRD2H681MB070***
	820	0.15	324	129	2.6	35x100	LRD2H821MS100***
		0.15	324	129	2.6	40x80	LRD2H821MB080***
	1000	0.15	265	106	2.8	40x100	LRD2H102MB100***
		0.15	265	106	2.8	45x80	LRD2H102MV080***
	1200	0.15	128	88	3.2	45x90	LRD2H122MV090***
	1500	0.15	128	68	3.6	45x110	LRD2H152MV110***
550 2Y (600)	180	0.15	2108	881	0.8	35x40	LRD2Y181MS040***
	220	0.15	1750	698	1.1	35x50	LRD2Y221MS050***
	270	0.15	1229	590	1.3	35x60	LRD2Y271MS060***
	330	0.15	1005	483	1.4	35x70	LRD2Y331MS070***
	390	0.15	851	408	1.6	35x70	LRD2Y391MS070***
	470	0.15	706	339	1.8	35x80	LRD2Y471MS080***
		0.15	706	339	1.8	40x70	LRD2Y471MB070***
	560	0.15	592	284	2.0	35x90	LRD2Y561MS090***
		0.15	592	284	2.0	40x80	LRD2Y561MB080***
	680	0.15	488	234	2.3	40x90	LRD2Y681MB090***
		0.15	488	234	2.3	45x80	LRD2Y681MV080***
	820	0.15	320	189	2.6	40x100	LRD2Y821MB100***
		0.15	320	189	2.6	45x90	LRD2Y821MV090***
	1000	0.15	280	161	2.9	40x100	LRD2Y102MB100***
		0.15	280	161	2..9	45x90	LRD2Y102MV090***

*** Indicates terminal type, length, and sleeve color.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LRE series 105℃ 12000 hours

LRC longer life LRD longer life LRE (↑105℃)
LCC longer life LCD longer life LCE (↑105℃)



- Rohs requirements
- 105℃ for 12000 hours,high ripple product
- Used for industrial products such as power supply, servo, inverter and other industrial products

■ Product description

Item	Characteristic		
Operating temperature range	-40℃ ~ +105℃	-25℃ ~ +105℃	
Rated voltage(WV/V)	160V ~ 450V	460V ~ 550V	
Capacitance(CAP/C)	100 ~ 3300μF		
Tolerance(CAP/C)	±20% (25℃, 120Hz)		
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)		
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	160 ~ 450	460 ~ 550
	DF	0.15	0.15
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	160 ~ 450	460 ~ 550
	Z(-25℃/Z(+25℃)	4	10
	Z(-40℃/Z(+25℃)	8	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6		
	C(-25℃/C(+25℃)≥0.7		

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	14000h	>240000h	12000h	12000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

■ Ripple current correction factor

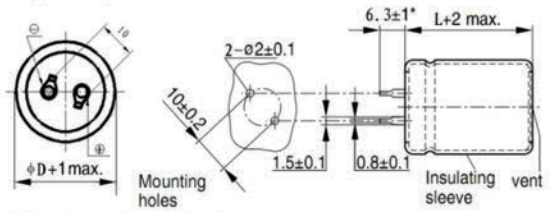
Temp.℃	40	55	85	105
Coefficient	3.0	2.8	2.0	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.16	1.30	1.41

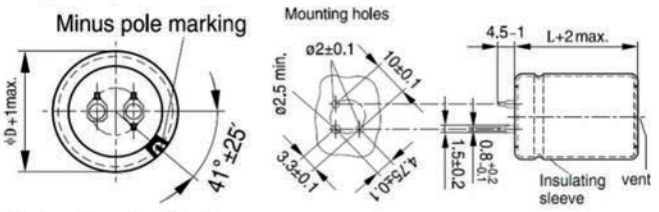
Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

■ Outline drawing Unit:Mm

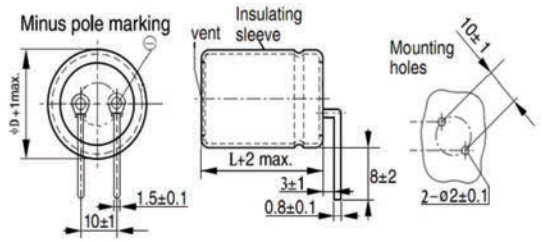
K-Type(Snap in 2 Pins):



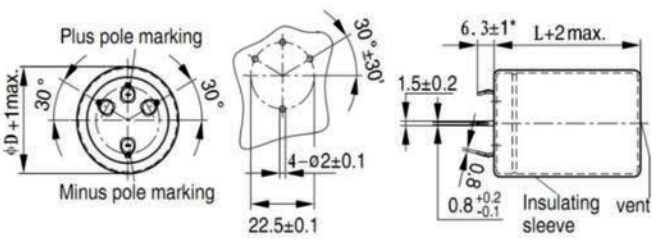
L-Type(Snap in 3 Pins):



X-Type (Long Lead 2 Pin):



M-Type(Snap in 4 Pins):



■ LRE series:105℃ 12000 hours,long lifetime,high ripple snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
160 2C (200)	470	0.15	423	254	1.5	25x40	LRE2C471MQ040***
	560	0.15	355	213	1.7	25x50	LRE2C561MQ050***
	680	0.15	293	176	1.9	25x60	LRE2C681MQ060***
		0.15	293	176	1.8	30x50	LRE2C681MR050***
	820	0.15	243	146	2.1	25x60	LRE2C821MQ060***
		0.15	243	146	2.1	30x50	LRE2C821MR050***
	1000	0.15	199	119	2.4	25x60	LRE2C102MQ060***
		0.15	199	119	2.4	30x50	LRE2C102MR050***
		0.15	199	119	2.5	35x40	LRE2C102MS040***
	1200	0.15	166	100	2.8	25x60	LRE2C122MQ060***
		0.15	166	100	2.8	30x50	LRE2C122MR050***
		0.15	166	100	2.8	35x40	LRE2C122MS040***
	1500	0.15	133	80	3.1	30x70	LRE2C152MR070***
		0.15	133	80	3.1	35x50	LRE2C152MS050***
		0.15	133	80	3.2	35x60	LRE2C152MS060***
	1800	0.15	111	66	3.6	30x60	LRE2C182MR060***
		0.15	111	66	3.6	30x70	LRE2C182MR070***
		0.15	111	66	3.5	35x50	LRE2C182MS050***
	2200	0.15	90	54	4.1	30x70	LRE2C222MR070***
		0.15	90	54	4.1	30x80	LRE2C222MR080***
		0.15	90	54	4.0	35x60	LRE2C222MS060***
		0.15	90	54	4.0	35x65	LRE2C222MS065***
	2700	0.15	74	44	4.6	35x65	LRE2C272MS065***
		0.15	74	44	4.8	35x70	LRE2C272MS070***
	3300	0.15	60	36	5.4	35x80	LRE2C332MS080***
200 2D (250)	390	0.15	510	306	1.3	25x50	LRE2D391MQ050***
	470	0.15	423	254	1.5	25x50	LRE2D471MQ050***
	560	0.15	355	213	1.7	25x60	LRE2D561MQ060***
		0.15	355	213	1.6	30x40	LRE2D561MR040***
	680	0.15	293	176	1.9	25x60	LRE2D681MQ060***
		0.15	293	176	1.9	30x50	LRE2D681MR050***
		0.15	293	176	1.9	35x40	LRE2D681MS040***
	820	0.15	243	146	2.2	25x60	LRE2D821MQ060***
		0.15	243	146	2.2	30x50	LRE2D821MR050***
	1000	0.15	199	119	2.5	30x60	LRE2D102MR060***
		0.15	199	119	2.5	30x65	LRE2D102MR065***
		0.15	199	119	2.7	35x40	LRE2D102MS040***
		0.15	199	119	2.7	35x45	LRE2D102MS045***
	1200	0.15	166	100	2.7	30x60	LRE2D122MR060***
		0.15	166	100	2.8	30x65	LRE2D122MR065***
		0.15	166	100	2.8	35x40	LRE2D122MS040***
		0.15	166	100	3.0	35x45	LRE2D122MS045***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
200 2D (250)	1500	0.15	133	80	3.3	30x70	LRE2D152MR070***
		0.15	133	80	3.3	30x75	LRE2D152MR075***
		0.15	133	80	3.4	35x60	LRE2D152MS060***
	1800	0.15	111	66	3.7	30x80	LRE2D182MR080***
		0.15	111	66	3.8	35x60	LRE2D182MS060***
		0.15	111	66	3.8	35x70	LRE2D182MS070***
	2200	0.15	90	54	4.3	35x70	LRE2D222MS070***
		0.15	90	54	4.3	35x80	LRE2D222MS080***
	2700	0.15	74	44	4.9	35x80	LRE2D272MS080***
250 2E (300)	270	0.15	737	442	1.1	22x45	LRE2E271MP045***
	330	0.15	603	362	1.3	22x50	LRE2E331MP050***
	390	0.15	510	306	1.4	22x55	LRE2E391MP055***
		0.15	510	306	1.4	25x45	LRE2E391MQ045***
	470	0.15	423	254	1.6	22x60	LRE2E471MP060***
		0.15	423	254	1.6	25x50	LRE2E471MQ050***
	560	0.15	355	213	1.8	22x70	LRE2E561MP070***
		0.15	355	213	1.8	25x60	LRE2E561MQ060***
		0.15	355	213	1.8	30x35	LRE2E561MR035***
	680	0.15	293	176	2.0	25x60	LRE2E681MQ060***
		0.15	293	176	2.1	30x50	LRE2E681MR050***
		0.15	293	176	2.2	35x30	LRE2E681MS030***
	820	0.15	243	146	2.3	25x65	LRE2E821MQ065***
		0.15	243	146	2.4	30x50	LRE2E821MR050***
		0.15	243	146	2.5	35x35	LRE2E821MS035***
	1000	0.15	199	119	2.7	30x60	LRE2E102MR060***
	1200	0.15	166	100	3.0	30x60	LRE2E122MR060***
		0.15	166	100	3.0	35x40	LRE2E122MS040***
		0.15	166	100	3.2	35x50	LRE2E122MS050***
	1500	0.15	133	80	3.6	35x60	LRE2E152MS060***
	1800	0.15	111	66	4.0	35x70	LRE2E182MS070***
315 2F (365)	180	0.15	1106	663	1.0	22x50	LRE2F181MP050***
	220	0.15	905	543	1.1	22x50	LRE2F221MP050***
	270	0.15	737	442	1.2	22x60	LRE2F271MP060***
		0.15	737	442	1.2	25x50	LRE2F271MQ050***
	330	0.15	603	362	1.4	25x50	LRE2F331MQ050***
	390	0.15	510	306	1.6	25x60	LRE2F391MQ060***
		0.15	510	306	1.6	30x50	LRE2F391MR050***
		0.15	510	306	1.6	35x40	LRE2F391MS040***
	470	0.15	423	254	1.8	25x60	LRE2F471MQ060***
		0.15	423	254	1.8	30x50	LRE2F471MR050***
		0.15	423	254	1.8	35x35	LRE2F471MS035***
		0.15	423	254	1.4	35x40	LRE2F471MS040***

■ LRE series:105℃ 12000 hours,long lifetime,high ripple snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
315 2F (365)	560	0.15	355	213	2.0	25x70	LRE2F561MQ070***
		0.15	355	213	1.9	30x50	LRE2F561MR050***
		0.15	355	213	2.0	35x40	LRE2F561MS040***
	680	0.15	293	176	2.2	30x60	LRE2F681MR060***
		0.15	293	176	2.3	30x65	LRE2F681MR065***
		0.15	293	176	2.2	35x50	LRE2F681MS050***
	820	0.15	243	146	2.5	30x70	LRE2F821MR070***
		0.15	243	146	2.6	35x50	LRE2F821MS050***
	1000	0.15	199	119	2.9	35x60	LRE2F102MS060***
	1200	0.15	166	100	3.3	35x70	LRE2F122MS070***
		0.15	166	100	3.3	35x80	LRE2F122MS080***
350 2V (400)	120	0.15	1659	995	0.7	22x50	LRE2V121MP050***
	150	0.15	1327	796	0.8	22x50	LRE2V151MP050***
	180	0.15	1106	663	0.9	22x60	LRE2V181MP060***
		0.15	1106	663	0.9	25x60	LRE2V181MQ060***
	220	0.15	905	543	1.0	22x60	LRE2V221MP060***
		0.15	905	543	1.0	25x50	LRE2V221MQ050***
		0.15	905	543	1.0	30x35	LRE2V221MR035***
	270	0.15	737	442	1.3	22x70	LRE2V271MP070***
		0.15	737	442	1.3	25x60	LRE2V271MQ060***
		0.15	737	442	1.3	30x50	LRE2V271MR050***
		0.15	737	442	1.3	35x35	LRE2V271MS035***
	330	0.15	603	362	1.4	25x60	LRE2V331MQ060***
		0.15	603	362	1.4	30x50	LRE2V331MR050***
		0.15	603	362	1.4	35x40	LRE2V331MS040***
	390	0.15	510	306	1.6	25x60	LRE2V391MQ060***
		0.15	510	306	1.6	30x50	LRE2V391MR050***
		0.15	510	306	1.6	35x40	LRE2V391MS040***
	470	0.15	423	254	1.8	25x70	LRE2V471MQ070***
		0.15	423	254	1.8	30x60	LRE2V471MR060***
		0.15	423	254	1.8	35x50	LRE2V471MS050***
	560	0.15	355	213	2.0	30x60	LRE2V561MR060***
		0.15	355	213	2.0	35x50	LRE2V561MS050***
	680	0.15	293	176	2.4	30x70	LRE2V681MR070***
		0.15	293	176	2.4	35x60	LRE2V681MS060***
	820	0.15	243	146	2.6	35x60	LRE2V821MS060***
		0.15	243	146	2.6	35x70	LRE2V821MS070***
	1000	0.15	199	119	2.8	35x70	LRE2V102MS070***
		0.15	199	119	2.8	40x60	LRE2V102MB060***
	1200	0.15	141	91	3.0	35x80	LRE2V122MS080***
		0.15	141	91	3.0	40x70	LRE2V122MB070***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	150	0.15	1327	708	0.9	25x50	LRE2G151MQ050***
		0.15	1327	708	0.9	30x40	LRE2G151MR040***
	180	0.15	1106	590	1.0	25x50	LRE2G181MQ050***
		0.15	1106	590	1.0	30x40	LRE2G181MR040***
	220	0.15	905	483	1.1	25x50	LRE2G221MQ050***
		0.15	905	483	1.1	30x50	LRE2G221MR050***
		0.15	905	483	1.2	35x40	LRE2G221MS040***
	270	0.15	737	393	1.3	25x60	LRE2G271MQ060***
		0.15	737	393	1.3	30x50	LRE2G271MR050***
		0.15	737	393	1.3	35x40	LRE2G271MS040***
	330	0.15	603	322	1.5	25x60	LRE2G331MQ060***
		0.15	603	322	1.4	30x60	LRE2G331MR060***
		0.15	603	322	1.5	35x40	LRE2G331MS040***
	390	0.15	510	272	1.6	25x70	LRE2G391MQ070***
		0.15	510	357	1.6	30x60	LRE2G391MR060***
		0.15	510	272	1.7	35x50	LRE2G391MS050***
	470	0.15	423	226	1.8	30x60	LRE2G471MR060***
		0.15	423	226	1.9	35x50	LRE2G471MS050***
	560	0.15	355	190	2.1	30x70	LRE2G561MR070***
		0.15	355	190	2.1	35x60	LRE2G561MS060***
	680	0.15	293	156	2.4	35x60	LRE2G681MS060***
	820	0.15	243	170	2.7	35x70	LRE2G821MS070***
	1000	0.15	199	106	3.2	35x80	LRE2G102MS080***
	1200	0.15	166	88	3.7	35x90	LRE2G122MS090***
420 2I (470)	100	0.15	1990	1128	0.7	22x50	LRE2I101MP050***
	120	0.15	1659	940	0.8	22x50	LRE2I121MP050***
		0.15	1659	940	0.8	25x50	LRE2I121MQ050***
	150	0.15	1327	752	0.9	25x50	LRE2I151MQ050***
	180	0.15	1106	627	1.0	22x60	LRE2I181MP060***
		0.15	1106	627	1.0	25x50	LRE2I181MQ050***
		0.15	1106	627	1.1	30x40	LRE2I181MR040***
	220	0.15	905	513	1.2	22x70	LRE2I221MP070***
		0.15	905	513	1.2	25x70	LRE2I221MQ070***
		0.15	905	513	1.2	30x50	LRE2I221MR050***
		0.15	905	513	1.2	35x35	LRE2I221MS035***
	270	0.15	737	418	1.3	25x70	LRE2I271MQ070***
		0.15	737	418	1.3	30x50	LRE2I271MR050***
		0.15	737	418	1.4	35x40	LRE2I271MS040***
	330	0.15	603	342	1.5	25x70	LRE2I331MQ070***
		0.15	603	342	1.5	30x50	LRE2I331MR050***
		0.15	603	342	1.6	35x40	LRE2I331MS040***

■ LRE series:105℃ 12000 hours,long lifetime,high ripple snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (470)	390	0.15	510	289	1.7	30x50	LRE2I391MR050***
		0.15	510	289	1.7	35x40	LRE2I391MS040***
		0.15	510	289	1.7	35x45	LRE2I391MS045***
	470	0.15	423	240	1.9	30x60	LRE2I471MR060***
		0.15	423	240	2.0	35x50	LRE2I471MS050***
	560	0.15	355	201	2.2	35x50	LRE2I561MS050***
	680	0.15	293	166	2.5	35x60	LRE2I681MS060***
	820	0.15	243	138	3.0	35x70	LRE2I821MS070***
	1000	0.15	199	113	3.4	35x90	LRE2I102MS090***
	1200	0.15	166	94	3.8	35x100	LRE2I122MS100***
450 2W (500)	120	0.15	2212	885	0.8	22x50	LRE2W121MP050***
		0.15	2212	885	0.8	22x55	LRE2W121MP055***
		0.15	2212	885	0.8	25x45	LRE2W121MQ045***
	150	0.15	1769	708	0.9	22x60	LRE2W151MP060***
		0.15	1769	708	0.9	25x50	LRE2W151MQ050***
	180	0.15	1474	590	1.1	25x60	LRE2W181MQ060***
		0.15	1474	590	1.1	30x50	LRE2W181MR050***
		0.15	1474	590	1.1	35x35	LRE2W181MS035***
	220	0.15	1206	483	1.2	25x60	LRE2W221MQ060***
		0.15	1206	483	1.2	30x50	LRE2W221MR050***
		0.15	1206	483	1.2	35x35	LRE2W221MS035***
	270	0.15	983	393	1.3	25x65	LRE2W271MQ065***
		0.15	983	393	1.3	30x50	LRE2W271MR050***
		0.15	983	393	1.4	35x40	LRE2W271MS040***
	330	0.15	804	322	1.5	35x40	LRE2W331MS040***
	390	0.15	680	272	1.7	30x60	LRE2W391MR060***
		0.15	680	272	1.7	35x40	LRE2W391MS040***
		0.15	680	272	1.7	35x45	LRE2W391MS045***
	470	0.15	565	226	2.0	30x70	LRE2W471MR070***
		0.15	565	226	2.0	35x55	LRE2W471MS055***
		0.15	565	226	2.0	35x60	LRE2W471MS060***
	560	0.15	474	190	2.2	35x70	LRE2W561MS070***
	680	0.15	390	156	2.6	35x80	LRE2W681MS080***
		0.15	390	156	2.6	35x90	LRE2W681MS090***
	820	0.15	324	129	3.0	35x90	LRE2W821MS090***
	1000	0.15	265	106	3.4	35x100	LRE2W102MS100***
		0.15	265	106	3.4	40x80	LRE2W102MB080***
	1200	0.15	221	88	3.7	35x110	LRE2W122MS110***
		0.15	221	88	3.7	40x90	LRE2W122MB090***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	100	0.15	2654	1062	0.8	25x50	LRE2H101MQ050***
	120	0.15	2212	885	0.9	25x60	LRE2H121MQ060***
		0.15	2212	885	0.9	30x40	LRE2H121MR040***
	150	0.15	1769	708	1.0	30x40	LRE2H151MR040***
	180	0.15	1474	590	1.2	30x50	LRE2H181MR050***
	220	0.15	1206	483	1	25x70	LRE2H221MQ070***
		0.15	1206	483	1.3	30x50	LRE2H221MR050***
		0.15	1206	483	1.2	35x40	LRE2H221MS040***
	270	0.15	983	393	1.5	30x60	LRE2H271MR060***
		0.15	983	393	1.5	35x50	LRE2H271MS050***
	330	0.15	804	322	1.6	35x50	LRE2H331MS050***
	390	0.15	680	272	1.8	35x60	LRE2H391MS060***
	470	0.15	565	226	2.0	35x60	LRE2H471MS060***
		0.15	565	226	2.0	35x70	LRE2H471MS070***
	560	0.15	474	190	2.2	35x70	LRE2H561MS070***
		0.15	474	190	2.2	40x60	LRE2H561MB060***
	680	0.15	390	156	2.4	35x80	LRE2H681MS080***
		0.15	390	156	2.4	40x70	LRE2H681MB070***
	820	0.15	324	129	2.6	35x100	LRE2H821MS100***
		0.15	324	129	2.6	40x80	LRE2H821MB080***
	1000	0.15	265	106	2.8	40x100	LRE2H102MB100***
		0.15	265	106	2.8	45x80	LRE2H102MV080***
	1200	0.15	128	88	3.2	45x90	LRE2H122MV090***
	1500	0.15	128	68	3.6	45x110	LRE2H152MV110***
550 2Y (600)	180	0.15	2108	881	0.8	35x40	LRE2Y181MS040***
	220	0.15	1750	698	1.1	35x50	LRE2Y221MS050***
	270	0.15	1229	590	1.3	35x60	LRE2Y271MS060***
	330	0.15	1005	483	1.4	35x70	LRE2Y331MS070***
	390	0.15	851	408	1.6	35x70	LRE2Y391MS070***
	470	0.15	706	339	1.8	35x80	LRE2Y471MS080***
		0.15	706	339	1.8	40x70	LRE2Y471MB070***
	560	0.15	592	284	2.0	35x90	LRE2Y561MS090***
		0.15	592	284	2.0	40x80	LRE2Y561MB080***
	680	0.15	488	234	2.3	40x90	LRE2Y681MB090***
		0.15	488	234	2.3	45x80	LRE2Y681MV080***
	820	0.15	320	189	2.6	40x100	LRE2Y821MB100***
		0.15	320	189	2.6	45x90	LRE2Y821MV090***
	1000	0.15	280	161	2.9	40x100	LRE2Y102MB100***
		0.15	280	161	2..9	45x90	LRE2Y102MV090***

LNA series (300,000 times charge and discharge)



- Rohs requirements
- High reliability, standard mode
- Used for flash, strobe lights

LNA longer life LNB

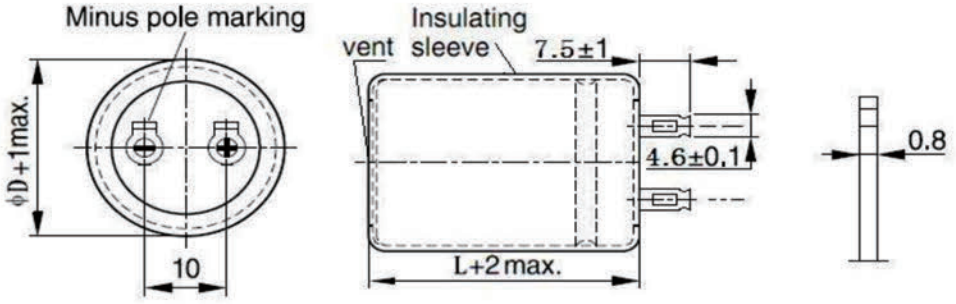
■ Product description

Item	Characteristic
Operating temperature range	-20℃ ~ +55℃
Rated voltage(WV/V)	330WV ~450WV
Tolerance CAP/C(25℃, 120Hz)	±20% (25℃, 120Hz)
Leakage current LC/I(25℃, 120Hz)	I≤1 x CAP (μA) (25℃, 5min) C= nominal electrostatic capacity (μF), V=rated voltage (V)
Dissipation factor DF/tanδ (25℃, 120Hz)	DF≤15%
Charge and discharge characteristics	In the environment of 5~35℃, under the condition of applying the rated working voltage, the product performance is in accordance with 300,000 times of charging and discharging through the xenon tube with the discharge resistance of 0.7-1Ω for 4 seconds each time:
High temperature storage	500 hours of storage at 70℃ without voltage, 30 minutes of processing with rated working voltage, 24-48 hours of recovery, tested at 25±5℃ for performance compliance:

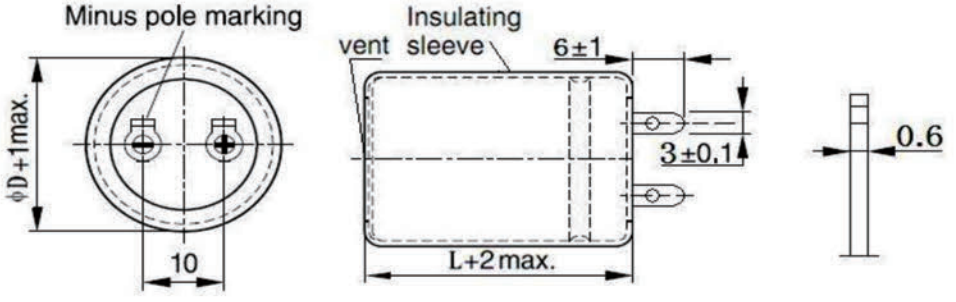
Capacitance change	Within 10% of the initial value.
Dissipation factor	Below 150% of the rated specification value.
Leakage currentLC/I(25℃, 120Hz)	Below 150% of the rated specification value.

■ Drawing unit:mm

HB type (flat head with hole weld piece)



HC type (round head with hole weld piece)



■ LNA series (300,000 times charge and discharge)

WV (V.DC)	CAP (μF)	Size ΦD×L(mm)	P/N
330 2M (350)	180	22x25	LNA2M181MP025***
	200	22x30	LNA2M201MP030***
		25x25	LNA2M201MQ025***
	250	22x30	LNA2M251MP030***
		25x30	LNA2M251MQ030***
	300	22x35	LNA2M301MP035***
		25x30	LNA2M301MQ030***
	350	22x40	LNA2M351MP040***
		25x35	LNA2M351MQ035***
		22x45	LNA2M401MP045***
	400	25x40	LNA2M401MQ040***
		30x30	LNA2M401MR030***
		22x50	LNA2M451MP050***
	450	25x45	LNA2M451MQ045***
		30x30	LNA2M451MR030***
	500	25x50	LNA2M501MQ050***
		30x35	LNA2M501MR035***
	600	30x35	LNA2M601MR035***
		35x30	LNA2M601MS030***
	700	30x40	LNA2M701MR040***
		35x30	LNA2M701MS030***
	800	30x45	LNA2M801MR045***
		35x35	LNA2M801MS035***
	900	30x45	LNA2M901MR045***
		35x35	LNA2M901MS035***
	1000	30x50	LNA2M102MR050***
		35x40	LNA2M102MS040***
	1200	30x60	LNA2M122MR060***
		35x45	LNA2M122MS045***
	1300	35x45	LNA2M132MS045***
	1500	35x50	LNA2M152MS050***
360 2N (390)	180	25x25	LNA2N181MQ025***
	200	22x30	LNA2N201MP030***
		25x30	LNA2N201MQ030***
		22x35	LNA2N251MP035***
	250	25x30	LNA2N251MQ030***
		30x25	LNA2N251MR025***
		22x40	LNA2N301MP040***
	300	25x35	LNA2N301MQ035***
		30x30	LNA2N301MR030***
		22x45	LNA2N351MP045***
	350	25x40	LNA2N351MQ040***
		30x30	LNA2N351MR030***
	400	22x50	LNA2N401MP050***
		25x45	LNA2N401MQ045***
		30x35	LNA2N401MR035***
	450	25x50	LNA2N451MQ050***
		30x35	LNA2N451MR035***
	500	25x60	LNA2N501MQ060***
		30x40	LNA2N501MR040***
	600	30x40	LNA2N601MR040***
		35x35	LNA2N601MS035***
	700	30x45	LNA2N701MR045***
		35x35	LNA2N701MS035***
	800	30x50	LNA2N801MR050***
		35x40	LNA2N801MS040***
	900	30x60	LNA2N901MR060***
		35x40	LNA2N901MS040***
	1000	30x60	LNA2N102MR060***
		35x45	LNA2N102MS045***
	1200	30x60	LNA2N122MR060***
		35x50	LNA2N122MS050***

WV (V.DC)	CAP (μF)	Size ΦD×L(mm)	P/N
400 2G (430)	180	22x35	LNA2G181MP035***
		25x30	LNA2G181MQ030***
	200	22x40	LNA2G201MP040***
		25x35	LNA2G201MQ035***
	250	22x45	LNA2G251MP045***
		25x40	LNA2G251MQ040***
	300	25x45	LNA2G301MQ045***
		30x35	LNA2G301MR035***
	350	25x50	LNA2G351MQ050***
		30x35	LNA2G351MR035***
	400	25x50	LNA2G401MQ050***
		30x40	LNA2G401MR040***
		30x45	LNA2G401MR045***
	450	25x55	LNA2G451MQ055***
		30x45	LNA2G451MR045***
		35x35	LNA2G451MS035***
	500	30x45	LNA2G501MR045***
		35x35	LNA2G501MS035***
	600	30x50	LNA2G601MR050***
		35x40	LNA2G601MS040***
	700	30x55	LNA2G701MR055***
		35x45	LNA2G701MS045***
	800	30x60	LNA2G801MR060***
		35x50	LNA2G801MS050***
	900	25x85	LNA2G901MQ085***
		35x55	LNA2G901MS055***
	1000	25x90	LNA2G102MQ090***
		35x60	LNA2G102MS060***
450 2W (480)	180	22x40	LNA2W181MP040***
		25x35	LNA2W181MQ035***
	200	22x45	LNA2W201MP045***
		25x40	LNA2W201MQ040***
	250	22x50	LNA2W251MP050***
		25x45	LNA2W251MQ045***
	300	25x50	LNA2W301MQ050***
		30x40	LNA2W301MR040***
	350	25x55	LNA2W351MQ055***
		30x45	LNA2W351MR045***
	400	22x60	LNA2W401MP060***
		25x60	LNA2W401MQ060***
		30x50	LNA2W401MR050***
	450	22x65	LNA2W451MP065***
		25x60	LNA2W451MQ060***
		30x50	LNA2W451MR050***
	500	28x55	LNA2W501MI055***
		30x55	LNA2W501MR055***
		35x40	LNA2W501MS040***
	530	25x70	LNA2W531MQ070***
		30x60	LNA2W531MR060***
	560	25x75	LNA2W561MQ075***
		30x60	LNA2W561MR060***
	650	30x55	LNA2W651MR055***
		35x50	LNA2W651MS050***
	680	22x95	LNA2W681MP095***
		30x55	LNA2W681MR055***
	750	25x80	LNA2W751MQ080***
		25x90	LNA2W751MQ090***
	800	30x55	LNA2W801MR055***
	820	25x90	LNA2W821MQ090***
		30x80	LNA2W821MR080***
	900	25x95	LNA2W901MQ095***
	1000	30x90	LNA2W102MR090***

*** Indicates terminal type, length, and sleeve color.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LNB series (500,000 times charge and discharge)

- Rohs requirements
- High reliability, general purpose
- Used for flash, strobe lights

LNA longer life LNB



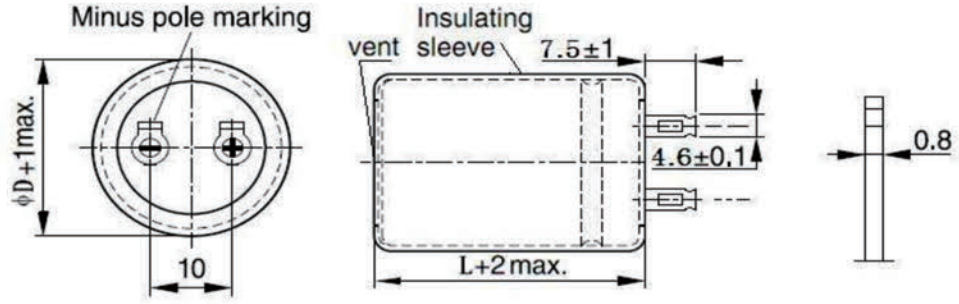
■ Product description

Item	Characteristic
Operating temperature range	-20℃ ~ +55℃
Rated voltage(WV/V)	330WV ~450WV
Tolerance CAP/C(25℃, 120Hz)	±20% (25℃, 120Hz)
Leakage current LC/I(25℃, 120Hz)	I≤1 x CAP (μA) (25℃, 5min) C= nominal electrostatic capacity (μF), V=rated voltage (V)
Dissipation factor DF/tanδ (25℃, 120Hz)	DF≤15%
Charge and discharge characteristics	In the environment of 5~35℃, under the condition of applying the rated working voltage, the product performance is in accordance with 300,000 times of charging and discharging through the xenon tube with the discharge resistance of 0.7-1Ω for 4 seconds each time:
High temperature storage	500 hours of storage at 70℃ without voltage, 30 minutes of processing with rated working voltage, 24-48 hours of recovery, tested at 25±5℃ for performance compliance:

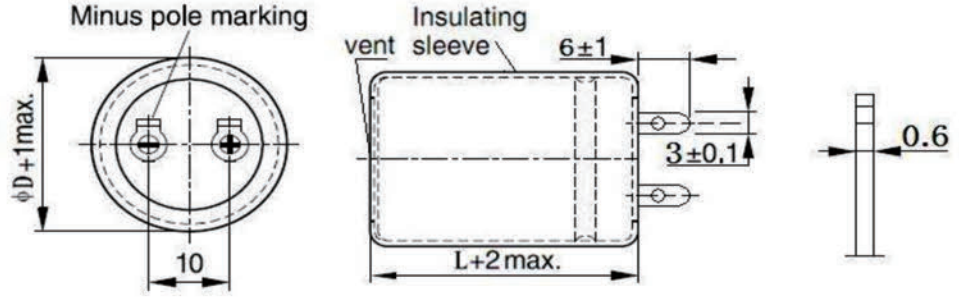
Capacitance change	Within 10% of the initial value.
Dissipation factor	Below 150% of the rated specification value.
Leakage currentLC/I(25℃, 120Hz)	Below 150% of the rated specification value.

■ Drawing unit:mm

HB type (flat head with hole weld piece)



HC type (round head with hole weld piece)



■ LNB series (500,000 times charge and discharge)

WV (V.DC)	CAP (μF)	Size ΦD×L(mm)	P/N
330 2M (350)	180	22x30	LNB2M181KP030***
	200	22x35	LNB2M201KP035***
		25x30	LNB2M201KQ030***
	250	22x35	LNB2M251KP035***
		25x35	LNB2M251KQ035***
	300	22x40	LNB2M301KP040***
		25x35	LNB2M301KQ035***
	350	22x45	LNB2M351KP045***
		25x40	LNB2M351KQ040***
		22x50	LNBM2401KP050***
	400	25x45	LNB2M401KQ045***
		30x35	LNB2M401KR035***
		22x55	LNB2M451KP055***
	450	25x50	LNB2M451KQ050***
		30x35	LNB2M451KR035***
	500	25x50	LNB2M501KQ050***
		30x40	LNB2M501KR040***
	600	30x40	LNB2M601KR040***
		35x35	LNB2M601KS035***
	700	30x45	LNB2M701KR045***
		35x35	LNB2M701KS035***
	800	30x50	LNB2M801KR050***
		35x40	LNB2M801KS040***
	900	30x50	LNB2M901KR050***
		35x40	LNB2M901KS040***
	1000	30x55	LNB2M102KR055***
		35x45	LNB2M102KS045***
	1200	30x60	LNB2M122KR060***
		35x50	LNB2M122KS050***
	1300	35x50	LNB2M132KS050***
	1500	35x55	LNB2M152KS055***
360 2N (390)	180	25x30	LNB2N181KQ030***
	200	22x35	LNB2N201KP035***
		25x35	LNB2N201KQ035***
		22x40	LNB2N251KP040***
	250	25x35	LNB2N251KQ035***
		30x30	LNB2N251KR030***
		22x45	LNB2N301KP045***
	300	25x40	LNB2N301KQ040***
		30x35	LNB2N301KR035***
		22x50	LNB2N351KP050***
	350	25x45	LNB2N351KQ045***
		30x35	LNB2N351KR035***
	400	22x55	LNB2N401KP055***
		25x50	LNB2N401KQ050***
		30x40	LNB2N401KR040***
	450	25x55	LNB2N451KQ055***
		30x40	LNB2N451KR040***
	500	25x65	LNB2N501KQ065***
		30x45	LNB2N501KR045***
	600	30x45	LNB2N601KR045***
		35x40	LNB2N601KS040***
	700	30x50	LNB2N701KR050***
		35x40	LNB2N701KS040***
	800	30x55	LNB2N801KR055***
		35x45	LNB2N801KS045***
	900	30x65	LNB2N901KR065***
		35x45	LNB2N901KS045***
	1000	30x65	LNB2N102KR065***
		35x50	LNB2N102KS050***
	1200	30x65	LNB2N122KR065***
		35x55	LNB2N122KS055***

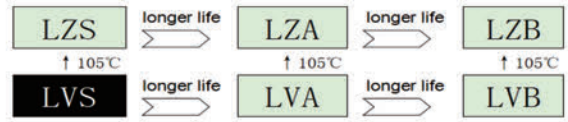
WV (V.DC)	CAP (μF)	Size ΦD×L(mm)	P/N
400 2G (430)	180	22x40	LNB2G181KP040***
		25x35	LNB2G181KQ035***
	200	22x45	LNB2G201KP045***
		25x40	LNB2G201KQ040***
	250	22x50	LNB2G251KP050***
		25x45	LNB2G251KQ045***
	300	25x50	LNB2G301KQ050***
		30x40	LNB2G301KR040***
	350	25x55	LNB2G351KQ055***
		30x40	LNB2G351KR040***
	400	25x55	LNB2G401KQ055***
		30x45	LNB2G401KR045***
		30x50	LNB2G401KR050***
	450	25x60	LNB2G451KQ060***
		30x50	LNB2G451KR050***
		35x40	LNB2G451KS040***
	500	30x50	LNB2G501KR050***
		35x40	LNB2G501KS040***
	600	30x55	LNB2G601KR055***
		35x45	LNB2G601KS045***
	700	30x60	LNB2G701KR060***
		35x50	LNB2G701KS050***
	800	30x65	LNB2G801KR065***
		35x50	LNB2G801KS050***
	900	25x85	LNB2G901KQ085***
		35x55	LNB2G901KS055***
	1000	25x90	LNB2G102KQ090***
		35x60	LNB2G102KS060***
450 2W (480)	180	22x45	LNB2W181KP045***
		25x35	LNB2W181KQ040***
	200	22x50	LNB2W201KP050***
		25x45	LNB2W201KQ045***
	250	22x55	LNB2W251KP055***
		25x50	LNB2W251KQ050***
	300	25x50	LNB2W301KQ050***
		30x40	LNB2W301KR040***
	350	25x60	LNB2W351KQ060***
		30x50	LNB2W351KR050***
	400	22x65	LNB2W401KP065***
		25x60	LNB2W401KQ060***
		30x50	LNB2W401KR050***
	450	22x70	LNB2W451KP070***
		25x65	LNB2W451KQ065***
		30x55	LNB2W451KR055***
	500	28x60	LNB2W501KI060***
		30x55	LNB2W501KR055***
		35x45	LNB2W501KS045***
	530	25x70	LNB2W531KQ070***
		30x60	LNB2W531KR060***
	560	25x75	LNB2W561KQ075***
		30x65	LNB2W561KR065***
	650	30x65	LNB2W651KR065***
		35x55	LNB2W651KS055***
	680	22x95	LNB2W681KP095***
		30x60	LNB2W681KR060***
	750	25x85	LNB2W751KQ085***
		25x90	LNB2W751KQ090***
	800	30x70	LNB2W801KR070***
	820	25x95	LNB2W821KQ095***
		30x85	LNB2W821KR085***
	900	25x100	LNB2W901KQ100***
	1000	30x95	LNB2W102KR095***

*** Indicates terminal type, length, and sleeve color.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LVS series 85℃ 2000 hours





- **Rohs requirements**
- **85℃ 2000 hour anti-vibration series**
- **Used in high-vibration equipment such as automotive electronics, generators, electric vehicles, and punching machines**

■ Product description

Item	Characteristic					
Operating temperature range	-40℃ ~ +85℃			-25℃ ~ +85℃		
Rated voltage(WV/V)	100V ~ 450V			460V ~ 600V		
Capacitance(CAP/C)	68 ~ 15000μF					
Tolerance(CAP/C)	±20% (25℃, 120Hz)					
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)					
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	100	160 ~ 200	250 ~ 600		
	DF	0.20	0.15	0.15		
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)		100	160 ~ 200	250 ~ 400	450 ~ 600
	Z(-25℃/Z(+25℃)		4			
	Z(-40℃/Z(+25℃)		15	10	8	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6					
	C(-25℃/C(+25℃)≥0.7					

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	4000h	>65000h	2000h	3000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

■ Ripple current correction factor

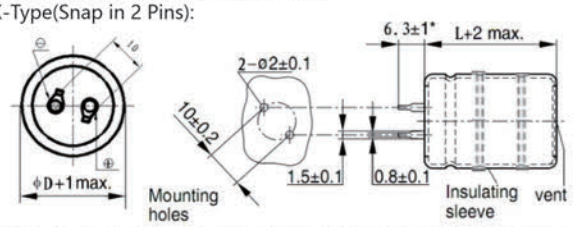
Temp.℃	40	55	70	85
Coefficient	1.7	1.5	1.3	1.0

Freq.	50/60Hz	120Hz	1KHz	10KHz	≥50KHz
Coefficient	0.80	1.00	1.30	1.40	1.42

Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

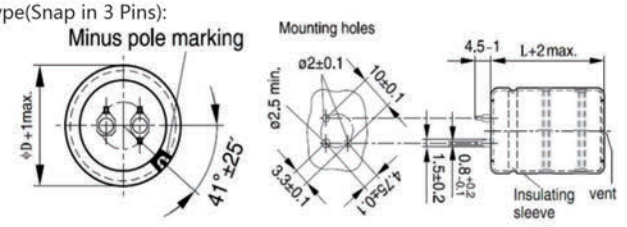
■ Outline drawing Unit:Mm

K-Type(Snap in 2 Pins):

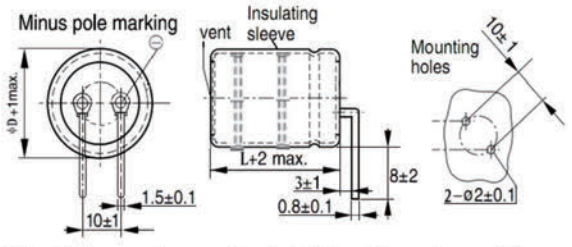


Note: if the snap-in capacitor height is ≥50mm, than add 2 grooves

L-Type(Snap in 3 Pins):

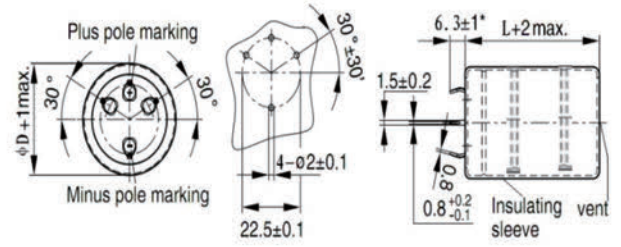


X-Type (Long Lead 2 Pin):



Note: If the snap-in capacitor height is ≤45mm, than add 1 groove

M-Type(Snap in 4 Pins):



■ LVS series:85℃ 2000 hours anti-vibration snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
100 2A (125)	680	0.20	300	230	1.10	22x25	LVS2A681MP025***
	820	0.20	250	190	1.21	22x30	LVS2A821MP030***
	1000	0.20	210	160	1.53	22x35	LVS2A102MP035***
		0.20	210	160	1.45	25x25	LVS2A102MQ025***
	1200	0.20	180	130	1.63	22x35	LVS2A122MP035***
		0.20	180	130	1.61	25x30	LVS2A122MQ030***
	1500	0.20	140	105	1.81	22x40	LVS2A152MP040***
		0.20	140	105	1.72	25x35	LVS2A152MQ035***
		0.20	140	105	1.83	30x25	LVS2A152MR025***
	1800	0.20	120	85	2.12	25x40	LVS2A182MQ040***
		0.20	120	85	2.10	30x30	LVS2A182MR030***
	2200	0.20	100	70	2.23	25x45	LVS2A222MQ045***
		0.20	100	70	2.32	30x35	LVS2A222MR035***
		0.20	100	70	2.51	35x30	LVS2A222MS030***
	2700	0.20	80	55	2.62	25x50	LVS2A272MQ050***
		0.20	80	55	2.70	30x40	LVS2A272MR040***
	3300	0.20	70	47	3.10	30x45	LVS2A332MR045***
		0.20	70	47	3.05	35x35	LVS2A332MS035***
	3900	0.20	60	40	3.44	30x50	LVS2A392MR050***
		0.20	60	40	3.42	35x40	LVS2A392MS040***
	4700	0.20	50	34	4.03	30x65	LVS2A472MR065***
		0.20	50	34	4.03	35x50	LVS2A472MS050***
	5600	0.20	45	32	4.60	30x75	LVS2A562MR075***
		0.20	45	32	4.60	35x55	LVS2A562MS055***
	6800	0.20	42	29	5.10	30x90	LVS2A682MR090***
		0.20	42	29	5.10	35x65	LVS2A682MS065***
	8200	0.20	39	26	6.10	30x100	LVS2A822MR100***
		0.20	39	26	6.10	35x75	LVS2A822MS075***
	10000	0.20	36	23	6.80	35x90	LVS2A103MS090***
		0.20	36	23	6.80	40x70	LVS2A103MB070***
	12000	0.20	33	19	7.90	35x110	LVS2A123MS110***
		0.20	33	19	7.90	40x80	LVS2A123MB080***
	15000	0.20	30	16	8.80	40x100	LVS2A153MB100***
		0.20	30	16	8.80	45x90	LVS2A153MV090***
200 2D (250)	220	0.15	580	500	1.10	22x25	LVS2D221MP025***
	270	0.15	490	400	1.21	22x30	LVS2D271MP030***
	330	0.15	400	330	1.41	22x30	LVS2D331MP030***
		0.15	400	330	1.40	25x25	LVS2D331MQ025***
	390	0.15	330	280	1.61	22x35	LVS2D391MP035***
		0.15	330	280	1.61	25x30	LVS2D391MQ030***
	470	0.15	280	260	1.51	22x35	LVS2D471MP035***
		0.15	280	260	1.81	22x40	LVS2D471MP040***
		0.15	280	230	1.81	25x30	LVS2D471MQ030***
		0.15	280	230	1.81	30x25	LVS2D471MR025***
	560	0.15	235	200	2.03	22x45	LVS2D561MP045***
		0.15	235	200	2.10	30x30	LVS2D561MR030***
		0.15	235	200	2.30	30x40	LVS2D561MR040***
		0.15	235	200	2.02	35x25	LVS2D561MS025***
	680	0.15	195	160	2.11	22x50	LVS2D681MP050***
		0.15	195	160	2.31	25x40	LVS2D681MQ040***
		0.15	195	160	2.42	30x35	LVS2D681MR035***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
200 2D (250)	820	0.15	160	135	2.11	22x60	LVS2D821MP060***
		0.15	160	135	2.31	25x40	LVS2D821MQ040***
		0.15	160	135	2.41	30x30	LVS2D821MR030***
		0.15	160	135	2.53	35x30	LVS2D821MS030***
	1000	0.15	130	110	2.83	22x80	LVS2D102MP080***
		0.15	130	110	2.83	25x60	LVS2D102MQ060***
		0.15	130	110	2.83	30x45	LVS2D102MR045***
		0.15	130	110	2.83	35x35	LVS2D102MS035***
		0.15	130	110	2.83	35x40	LVS2D102MS040***
	1200	0.15	120	90	3.42	30x50	LVS2D122MR050***
		0.15	120	90	3.20	35x40	LVS2D122MS040***
	1500	0.15	105	80	3.80	25x80	LVS2D152MQ080***
		0.15	105	80	3.60	30x50	LVS2D152MR050***
		0.15	110	80	3.70	35x40	LVS2D152MS040***
	1800	0.15	96	80	4.22	30x60	LVS2D182MR060***
		0.15	96	80	4.12	35x50	LVS2D182MS050***
	2200	0.15	88	71	4.62	30x75	LVS2D222MR075***
		0.15	88	71	4.52	35x55	LVS2D222MS055***
	2700	0.15	80	63	5.21	30x85	LVS2D272MR085***
		0.15	80	63	5.11	35x65	LVS2D272MS065***
	3300	0.15	71	55	6.25	30x105	LVS2D332MR105***
		0.15	71	55	6.16	35x75	LVS2D332MS075***
	3900	0.15	63	49	7.15	35x85	LVS2D392MS085***
		0.15	63	49	7.02	40x60	LVS2D392MB060***
	4700	0.15	55	40	7.68	35x105	LVS2D472MS105***
		0.15	55	40	7.53	40x70	LVS2D472MB070***
	5600	0.15	49	33	8.24	40x90	LVS2D562MB090***
		0.15	49	33	8.15	45x80	LVS2D562MV080***
250 2E (300)	180	0.15	1110	890	0.94	22x25	LVS2E181MP025***
	220	0.15	910	730	1.12	22x30	LVS2E221MP030***
		0.15	910	730	1.13	25x25	LVS2E221MQ025***
	270	0.15	750	600	1.23	22x35	LVS2E271MP035***
		0.15	750	600	1.43	25x30	LVS2E271MQ030***
		0.15	750	600	1.43	30x25	LVS2E271MR025***
	330	0.15	610	490	1.52	22x50	LVS2E331MP050***
		0.15	610	490	1.52	25x30	LVS2E331MQ030***
		0.15	610	490	1.53	30x25	LVS2E331MR025***
	390	0.15	520	410	1.62	22x60	LVS2E391MP060***
		0.15	520	410	1.62	25x35	LVS2E391MQ035***
		0.15	520	410	1.64	30x30	LVS2E391MR030***
	470	0.15	430	340	1.82	30x30	LVS2E471MR030***
		0.15	430	340	2.42	35x25	LVS2E471MS025***
	560	0.15	360	290	2.05	25x45	LVS2E561MQ045***
		0.15	360	290	2.05	30x35	LVS2E561MR035***
	680	0.15	300	240	2.35	30x40	LVS2E681MR040***
		0.15	300	240	2.63	35x30	LVS2E681MS030***
	820	0.15	250	200	2.61	25x60	LVS2E821MQ060***
		0.15	250	200	2.60	30x45	LVS2E821MR045***
		0.15	250	200	2.85	35x35	LVS2E821MS035***
	1000	0.15	200	165	3.02	30x50	LVS2E102MR050***
		0.15	200	165	3.20	35x40	LVS2E102MS040***

■ LVS series:85℃ 2000 hours anti-vibration snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	1200	0.15	170	149	3.43	30x55	LVS2E122MR055***
		0.15	170	149	3.43	35x40	LVS2E122MS040***
	1500	0.15	165	135	3.66	30x65	LVS2E152MR065***
		0.15	165	135	3.66	35x45	LVS2E152MS045***
	1800	0.15	160	131	3.91	30x75	LVS2E182MR075***
		0.15	160	131	3.91	35x55	LVS2E182MS055***
	2200	0.15	149	120	4.50	30x85	LVS2E222MR085***
		0.15	149	120	4.40	35x65	LVS2E222MS065***
	2700	0.15	135	112	5.20	30x105	LVS2E272MR105***
		0.15	135	112	5.10	35x75	LVS2E272MS075***
	3300	0.15	131	103	6.00	35x90	LVS2E332MS090***
		0.15	131	103	5.90	40x70	LVS2E332MB070***
	3900	0.15	120	95	6.70	40x80	LVS2E392MB080***
		0.15	120	95	6.60	45x70	LVS2E392MV070***
	4700	0.15	112	86	7.80	40x100	LVS2E472MB100***
		0.15	112	86	7.70	45x80	LVS2E472MV080***
315 2F (365)	100	0.15	2000	1600	0.67	22x25	LVS2F101MP025***
	120	0.15	2000	1600	0.74	22x25	LVS2F121MP025***
	150	0.15	1330	1100	0.86	22x30	LVS2F151MP030***
		0.15	1330	1100	0.85	25x25	LVS2F151MQ025***
	180	0.15	1110	890	0.97	22x35	LVS2F181MP035***
		0.15	1110	890	0.96	25x30	LVS2F181MQ030***
		0.15	1110	890	0.96	30x25	LVS2F181MR025***
	220	0.15	910	730	1.11	25x35	LVS2F221MQ035***
		0.15	910	730	1.11	30x30	LVS2F221MR030***
		0.15	910	730	1.11	35x25	LVS2F221MS025***
	270	0.15	740	600	1.31	30x30	LVS2F271MR030***
		0.15	740	600	1.30	35x25	LVS2F271MS025***
	330	0.15	610	490	1.42	25x45	LVS2F331MQ045***
		0.15	610	490	1.41	30x35	LVS2F331MR035***
	390	0.15	520	410	1.62	30x40	LVS2F391MR040***
		0.15	520	410	1.60	35x30	LVS2F391MS030***
	470	0.15	430	345	1.81	30x45	LVS2F471MR045***
		0.15	430	345	1.81	35x35	LVS2F471MS035***
350 2V (400)	82	0.15	2450	1950	0.65	22x25	LVS2V820MP025***
	100	0.15	2000	1600	0.78	22x25	LVS2V101MP025***
	120	0.15	1670	1330	0.82	25x25	LVS2V121MQ025***
	150	0.15	1330	1070	0.96	22x35	LVS2V151MP035***
		0.15	1330	1070	0.95	25x30	LVS2V151MQ030***
	180	0.15	1110	890	1.12	25x35	LVS2V181MQ035***
		0.15	1110	890	1.12	30x30	LVS2V181MR030***
	220	0.15	920	730	1.22	25x35	LVS2V221MQ035***
		0.15	920	730	1.22	30x30	LVS2V221MR030***
	270	0.15	745	595	1.43	30x35	LVS2V271MR035***
		0.15	745	595	1.43	35x30	LVS2V271MS030***
	330	0.15	610	485	1.63	30x40	LVS2V331MR040***
		0.15	610	485	1.63	35x30	LVS2V331MS030***
	390	0.15	515	410	1.74	30x40	LVS2V391MR040***
		0.15	515	410	1.80	35x35	LVS2V391MS035***
	470	0.15	430	340	2.05	30x45	LVS2V471MR045***
		0.15	430	340	2.00	35x40	LVS2V471MS040***
	560	0.15	430	340	2.00	35x45	LVS2V561MS045***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	680	0.15	360	290	2.62	35x50	LVS2V681MS050***
	820	0.15	280	200	2.82	35x60	LVS2V821MS060***
	1000	0.15	250	180	3.02	30x70	LVS2V102MR070***
		0.15	260	190	2.98	35x55	LVS2V102MS055***
	1200	0.15	230	160	3.50	30x85	LVS2V122MR085***
		0.15	240	170	3.40	35x65	LVS2V122MS065***
	1500	0.15	210	150	4.10	30x90	LVS2V152MR090***
		0.15	220	160	4.00	35x75	LVS2V152MS075***
	1800	0.15	180	130	4.70	35x90	LVS2V182MS090***
		0.15	190	140	4.60	40x70	LVS2V182MB070***
	2200	0.15	160	120	5.40	35x110	LVS2V222MS110***
		0.15	170	130	5.30	40x80	LVS2V222MB080***
	2700	0.15	130	100	5.90	40x100	LVS2V272MB100***
		0.15	140	110	5.80	45x70	LVS2V272MV070***
400 2G (450)	68	0.15	2810	2320	0.55	22x25	LVS2G680MP025***
	82	0.15	2430	1945	0.64	22x25	LVS2G820MP025***
	100	0.15	1995	1590	0.71	22x30	LVS2G101MP030***
		0.15	1995	1590	0.71	25x25	LVS2G101MQ025***
	120	0.15	1660	1330	0.80	22x35	LVS2G121MP035***
		0.15	1330	1065	0.85	25x30	LVS2G121MQ030***
		0.15	1330	1065	0.91	30x25	LVS2G121MR025***
	150	0.15	1330	1065	0.91	22x35	LVS2G151MP035***
		0.15	1330	1065	0.95	25x30	LVS2G151MQ030***
		0.15	1110	890	1.01	30x25	LVS2G151MR025***
	180	0.15	1110	890	1.10	22x40	LVS2G181MP040***
		0.15	1110	890	1.21	25x35	LVS2G181MQ035***
		0.15	910	730	1.00	30x30	LVS2G181MR030***
		0.15	910	730	1.06	35x25	LVS2G181MS025***
	220	0.15	910	730	1.06	22x45	LVS2G221MP045***
		0.15	910	730	1.22	22x50	LVS2G221MP050***
		0.15	910	730	1.22	25x40	LVS2G221MQ040***
		0.15	740	600	1.32	30x35	LVS2G221MR035***
		0.15	740	600	1.32	35x30	LVS2G221MS030***
	270	0.15	740	600	1.41	22x50	LVS2G271MP050***
		0.15	740	600	1.56	25x40	LVS2G271MQ040***
		0.15	610	490	1.53	25x45	LVS2G271MQ045***
		0.15	610	490	1.56	30x40	LVS2G271MR040***
		0.15	610	490	1.56	35x35	LVS2G271MS035***
	330	0.15	610	490	1.62	22x55	LVS2G331MP055***
		0.15	610	490	1.62	25x50	LVS2G331MQ050***
		0.15	610	490	1.70	30x40	LVS2G331MR040***
		0.15	610	490	1.70	35x35	LVS2G331MS035***
	390	0.15	515	415	1.81	22x65	LVS2G391MP065***
		0.15	515	415	1.81	25x55	LVS2G391MQ055***
		0.15	515	415	1.82	30x50	LVS2G391MR050***
		0.15	515	415	1.82	35x30	LVS2G391MS030***
	470	0.15	425	345	2.04	22x70	LVS2G471MP070***
		0.15	425	345	2.04	25x60	LVS2G471MQ060***
		0.15	425	345	2.04	30x40	LVS2G471MR040***
		0.15	425	345	2.04	30x45	LVS2G471MR045***
		0.15	425	345	2.04	35x40	LVS2G471MS040***
		0.15	425	345	2.04	35x35	LVS2G471MS035***

■ LVS series:85℃ 2000 hours anti-vibration snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	560	0.15	360	290	2.30	25x80	LVS2G561MQ080***
		0.15	360	290	2.30	25x70	LVS2G561MQ070***
		0.15	360	290	2.10	30x60	LVS2G561MR060***
		0.15	360	290	2.20	35x45	LVS2G561MS045***
		0.15	360	290	2.30	35x50	LVS2G561MS050***
	680	0.15	350	270	2.55	25x80	LVS2G681MQ080***
		0.15	350	270	2.51	30x60	LVS2G681MR060***
		0.15	350	270	2.41	35x45	LVS2G681MS045***
		0.15	342	260	2.45	35x50	LVS2G681MS050***
	820	0.15	342	260	2.90	25x90	LVS2G821MQ090***
		0.15	342	260	2.85	30x70	LVS2G821MR070***
		0.15	342	260	2.60	35x50	LVS2G821MS050***
		0.15	342	260	2.70	35x55	LVS2G821MS055***
		0.15	342	260	2.80	35x60	LVS2G821MS060***
		0.15	342	260	2.80	35x65	LVS2G821MS065***
	1000	0.15	200	117	3.60	25x110	LVS2G102MQ110***
		0.15	200	117	3.60	30x90	LVS2G102MR090***
		0.15	200	117	3.60	35x55	LVS2G102MS055***
		0.15	200	117	3.60	35x60	LVS2G102MS060***
		0.15	200	117	3.60	35x65	LVS2G102MS065***
		0.15	200	117	3.60	35x70	LVS2G102MS070***
		0.15	200	117	3.60	35x75	LVS2G102MS075***
		0.15	200	117	3.60	40x50	LVS2G102MB050***
		0.15	200	117	3.60	45x50	LVS2G102MV050***
	1200	0.15	180	105	4.10	35x90	LVS2G122MS090***
		0.15	180	105	4.10	35x63	LVS2G122MS063***
		0.15	180	105	4.10	35x65	LVS2G122MS065***
		0.15	180	105	4.10	35x70	LVS2G122MS070***
		0.15	180	105	4.10	35x80	LVS2G122MS080***
		0.15	180	105	4.10	35x85	LVS2G122MS085***
		0.15	180	105	4.10	40x60	LVS2G122MB060***
		0.15	180	105	4.10	40x65	LVS2G122MB065***
		0.15	180	105	4.10	40x70	LVS2G122MB070***
		0.15	180	105	4.10	40x80	LVS2G122MB080***
		0.15	180	105	4.10	45x70	LVS2G122MV070***
400 2G (450)	1500	0.15	160	100	4.50	40x65	LVS2G152MS065***
		0.15	160	100	4.50	40x70	LVS2G152MS070***
		0.15	160	100	4.50	35x80	LVS2G152MS080***
		0.15	160	100	4.50	35x85	LVS2G152MS085***
		0.15	160	100	4.50	35x100	LVS2G152MS100***
		0.15	160	100	4.50	40x80	LVS2G152MB080***
		0.15	160	100	4.50	45x70	LVS2G152MV070***
		0.15	160	100	4.50	45x75	LVS2G152MV075***
	1800	0.15	140	90	5.30	35x85	LVS2G182MS085***
		0.15	140	90	5.30	35x90	LVS2G182MS090***
		0.15	140	90	5.30	35x95	LVS2G182MS095***
		0.15	140	90	5.30	35x100	LVS2G182MS100***
		0.15	140	90	5.30	40x80	LVS2G182MB080***
		0.15	140	90	5.30	40x85	LVS2G182MB085***
		0.15	140	90	5.30	40x90	LVS2G182MB090***
		0.15	140	90	5.30	40x100	LVS2G182MB100***
		0.15	140	90	5.30	45x90	LVS2G182MV090***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	2200	0.15	120	85	6.30	35x110	LVS2G222MS110***
		0.15	120	85	6.30	40x85	LVS2G222MS085***
		0.15	120	85	6.30	40x90	LVS2G222MB090***
		0.15	120	85	6.30	40x100	LVS2G222MB100***
		0.15	120	85	6.30	45x80	LVS2G222MV080***
		0.15	120	85	6.30	45x90	LVS2G222MV090***
	2500	0.15	110	80	6.80	40x90	LVS2G252MB090***
		0.15	110	80	6.80	45x80	LVS2G252MV080***
	2700	0.15	100	70	7.10	45x90	LVS2G272MV090***
		0.15	100	70	7.10	45x100	LVS2G272MV100***
	3300	0.15	90	60	7.40	45x100	LVS2G332MV100***
		0.15	90	60	7.40	45x110	LVS2G332MV110***
450 2W (500)	68	0.15	2930	2345	0.57	22x30	LVS2W680MP030***
	82	0.15	2430	1945	0.70	25x35	LVS2W820MQ035***
	100	0.15	1995	1600	0.72	22x35	LVS2W101MP035***
		0.15	1995	1600	0.73	25x30	LVS2W101MQ030***
	120	0.15	1660	1330	0.80	22x40	LVS2W121MP040***
		0.15	1660	1330	0.84	25x35	LVS2W121MQ035***
		0.15	1660	1330	0.80	25x40	LVS2W121MQ040***
		0.15	1660	1330	0.84	30x30	LVS2W121MR030***
	150	0.15	1330	1070	0.89	22x45	LVS2W151MP045***
		0.15	1330	1070	0.95	25x40	LVS2W151MQ040***
		0.15	1330	1070	0.99	30x35	LVS2W151MR035***
		0.15	1330	1070	0.99	35x30	LVS2W151MS030***
	180	0.15	1110	895	1.11	22x50	LVS2W181MP050***
		0.15	1110	895	1.23	25x45	LVS2W181MQ045***
		0.15	1110	895	1.23	30x40	LVS2W181MR040***
		0.15	1110	895	1.23	35x30	LVS2W181MS030***
	220	0.15	915	730	1.32	22x60	LVS2W221MP060***
		0.15	915	730	1.20	25x50	LVS2W221MQ050***
		0.15	915	730	1.32	30x40	LVS2W221MR040***
	270	0.15	740	590	1.40	22x70	LVS2W271MP070***
		0.15	740	590	1.50	25x50	LVS2W271MQ050***
		0.15	740	590	1.55	30x40	LVS2W271MR040***
	330	0.15	610	490	1.55	22x70	LVS2W331MP070***
		0.15	610	490	1.65	25x50	LVS2W331MQ050***
		0.15	610	490	1.55	30x40	LVS2W331MR040***
		0.15	610	490	1.65	35x35	LVS2W331MS035***
	390	0.15	520	415	1.71	25x60	LVS2W391MQ060***
		0.15	520	415	1.71	30x45	LVS2W391MR045***
		0.15	520	415	1.71	35x40	LVS2W391MS040***
	470	0.15	430	342	1.93	25x70	LVS2W471MQ070***
		0.15	430	342	1.93	30x50	LVS2W471MR050***
		0.15	430	342	1.93	35x45	LVS2W471MS045***
	560	0.15	360	320	2.25	25x70	LVS2W561MQ070***
		0.15	360	320	2.25	30x60	LVS2W561MR060***
		0.15	360	320	2.36	35x50	LVS2W561MS050***
	680	0.15	280	240	2.70	25x90	LVS2W681MQ090***
		0.15	280	240	2.70	30x65	LVS2W681MR065***
		0.15	290	230	2.80	35x55	LVS2W681MS055***
	820	0.15	260	210	3.20	30x80	LVS2W821MR080***
		0.15	270	200	3.10	35x60	LVS2W821MS060***

■ LVS series:85℃ 2000 hours anti-vibration snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	1000	0.15	240	180	4.00	30x100	LVS2W102MR100***
		0.15	250	170	3.90	35x65	LVS2W102MS065***
	1200	0.15	220	150	4.30	35x90	LVS2W122MS090***
		0.15	230	140	4.20	40x70	LVS2W122MB070***
	1500	0.15	190	120	4.60	35x90	LVS2W152MS090***
		0.15	200	110	4.50	40x70	LVS2W152MB070***
	1800	0.15	170	90	5.10	35x110	LVS2W182MS110***
		0.15	180	80	5.00	40x80	LVS2W182MB080***
	2200	0.15	150	70	5.50	40x100	LVS2W222MB100***
		0.15	160	60	5.40	45x80	LVS2W222MV080***
500 2H (550)	100	0.15	1995	1600	0.91	25x30	LVS2H101MQ030***
		0.15	1995	1600	0.91	30x25	LVS2H101MR025***
	120	0.15	1665	1330	1.00	30x30	LVS2H121MR030***
		0.15	1665	1330	1.00	35x25	LVS2H121MS025***
	150	0.15	1330	1065	1.21	30x35	LVS2H151MR035***
		0.15	1330	1065	1.21	35x30	LVS2H151MS030***
	180	0.15	1110	890	1.42	30x40	LVS2H181MR040***
		0.15	1110	890	1.31	35x30	LVS2H181MS030***
	220	0.15	910	730	1.62	30x45	LVS2H221MR045***
		0.15	910	730	1.51	35x35	LVS2H221MS035***
	270	0.15	740	595	1.80	30x50	LVS2H271MR050***
		0.15	740	595	1.71	35x40	LVS2H271MS040***
	330	0.15	610	485	2.10	30x55	LVS2H331MR055***
		0.15	610	485	2.00	35x45	LVS2H331MS045***
	390	0.15	520	415	2.30	30x60	LVS2H391MR060***
		0.15	520	415	2.20	35x50	LVS2H391MS050***
	470	0.15	460	370	2.50	30x70	LVS2H471MR070***
		0.15	460	370	2.40	35x55	LVS2H471MS055***
	560	0.15	410	330	2.70	30x80	LVS2H561MR080***
		0.15	410	330	2.60	35x60	LVS2H561MS060***
	680	0.15	360	280	3.00	30x100	LVS2H681MR100***
		0.15	360	280	2.90	35x70	LVS2H681MS070***
	820	0.15	310	240	3.40	35x80	LVS2H821MS080***
		0.15	310	240	3.30	40x65	LVS2H821MB065***
	1000	0.15	270	210	3.80	40x80	LVS2H102MB080***
		0.15	270	210	3.70	45x60	LVS2H102MV060***
	1200	0.15	230	180	4.20	40x90	LVS2H122MB090***
		0.15	230	180	4.10	45x70	LVS2H122MV070***
550 2Y (600)	100	0.15	1330	1065	0.76	25x35	LVS2Y101MQ035***
		0.15	1330	1065	0.76	30x30	LVS2Y101MR030***
	120	0.15	1110	890	0.88	30x35	LVS2Y121MR035***
		0.15	1110	890	0.88	35x30	LVS2Y121MS030***
	150	0.15	910	730	1.00	30x40	LVS2Y151MR040***
		0.15	910	730	1.00	35x35	LVS2Y151MS035***
	180	0.15	740	595	1.10	30x45	LVS2Y181MR045***
		0.15	740	595	1.10	35x35	LVS2Y181MS035***
	220	0.15	610	485	1.30	30x50	LVS2Y221MR050***
		0.15	610	485	1.30	35x40	LVS2Y221MS040***

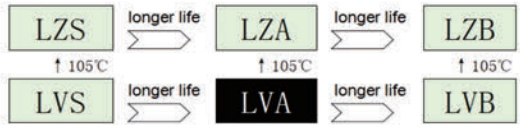
WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
550 2Y (600)	270	0.15	520	415	1.50	30x55	LVS2Y271MR055***
		0.15	520	415	1.50	35x45	LVS2Y271MS045***
	330	0.15	460	370	1.80	30x60	LVS2Y331MR060***
		0.15	460	370	1.80	35x50	LVS2Y331MS050***
	390	0.15	410	330	2.00	30x70	LVS2Y391MR070***
		0.15	410	330	2.00	35x55	LVS2Y391MS055***
	470	0.15	360	280	2.30	30x80	LVS2Y471MR080***
		0.15	360	280	2.30	35x60	LVS2Y471MS060***
	560	0.15	310	240	2.60	30x90	LVS2Y561MR090***
		0.15	310	240	2.60	35x70	LVS2Y561MS070***
	680	0.15	270	210	3.00	30x110	LVS2Y681MR110***
		0.15	270	210	2.90	35x80	LVS2Y681MS080***
	820	0.15	230	180	3.30	35x110	LVS2Y821MS110***
		0.15	230	180	3.20	40x80	LVS2Y821MB080***
	1000	0.15	210	150	3.60	40x90	LVS2Y102MB090***
		0.15	210	150	3.50	45x70	LVS2Y102MV070***
	1200	0.15	180	120	4.10	40x100	LVS2Y122MB100***
		0.15	180	120	4.00	45x80	LVS2Y122MV080***
600 2S (650)	82	0.15	1510	1210	0.64	25x40	LVS2S820MQ040***
		0.15	1510	1210	0.64	30x30	LVS2S820MR030***
	100	0.15	1260	980	0.76	25x50	LVS2S101MQ050***
		0.15	1260	980	0.76	30x35	LVS2S101MR035***
	120	0.15	1080	850	0.88	30x40	LVS2S121MR040***
		0.15	1080	850	0.88	35x35	LVS2S121MS035***
	150	0.15	890	690	1.00	30x45	LVS2S151MR045***
		0.15	890	690	1.00	35x40	LVS2S151MS040***
	180	0.15	720	580	1.10	30x50	LVS2S181MR050***
		0.15	720	580	1.10	35x40	LVS2S181MS040***
	220	0.15	580	460	1.30	30x55	LVS2S221MR055***
		0.15	580	460	1.30	35x45	LVS2S221MS045***
	270	0.15	510	410	1.40	30x60	LVS2S271MR060***
		0.15	510	410	1.40	35x50	LVS2S271MS050***
	330	0.15	450	310	1.70	30x70	LVS2S331MR070***
		0.15	450	310	1.70	35x55	LVS2S331MS055***
	390	0.15	400	290	1.90	30x80	LVS2S391MR080***
		0.15	400	290	1.90	35x60	LVS2S391MS060***
	470	0.15	350	260	2.20	30x90	LVS2S471MR090***
		0.15	350	260	2.20	35x65	LVS2S471MS065***
	560	0.15	300	230	2.50	30x100	LVS2S561MR100***
		0.15	300	230	2.50	35x70	LVS2S561MS070***
	680	0.15	260	200	2.90	30x110	LVS2S681MR110***
		0.15	260	200	2.80	35x80	LVS2S681MS080***
	820	0.15	220	170	3.20	35x110	LVS2S821MS110***
		0.15	220	170	3.10	40x90	LVS2S821MB090***
	1000	0.15	200	140	3.50	40x100	LVS2S102MB100***
		0.15	200	140	3.40	45x80	LVS2S102MV080***
	1200	0.15	170	110	3.80	40x110	LVS2S122MB110***
		0.15	170	110	3.60	45x90	LVS2S122MV090***

*** Indicates terminal type, length, and sleeve color.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LVA series 85℃ 3000 hours





- Rohs requirements
- 85℃ 3000 hour anti-vibration series
- Used in high-vibration equipment such as automotive electronics, generators, electric vehicles, and punching machines

■ Product description

Item	Characteristic					
Operating temperature range	-40℃ ~ +85℃			-25℃ ~ +85℃		
Rated voltage(WV/V)	100V ~ 450V			460V ~ 600V		
Capacitance(CAP/C)	68 ~ 15000μF					
Tolerance(CAP/C)	±20% (25℃, 120Hz)					
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)					
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	100	160 ~ 200	250 ~ 600		
	DF	0.20	0.15	0.15		
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)		100	160 ~ 200	250 ~ 400	450 ~ 600
	Z(-25℃/Z(+25℃)		4			
	Z(-40℃/Z(+25℃)		15	10	8	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6					
	C(-25℃/C(+25℃)≥0.7					

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	5000h	>80000h	3000h	4000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

■ Ripple current correction factor

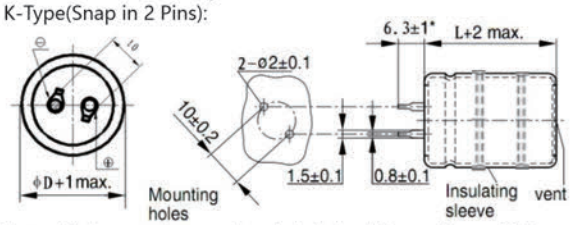
UR(V) \ Temp.℃	40	55	70	85
<160	2.1	1.8	1.5	1.0
≥160	1.7	1.5	1.3	1.0

UR(V) \ Freq.	50/60Hz	120Hz	1KHz	10KHz	≥50KHz
≤50	0.88	1.00	1.15	1.15	1.15
63-100	0.80	1.00	1.30	1.45	1.50
≥160	0.80	1.00	1.30	1.40	1.42

Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

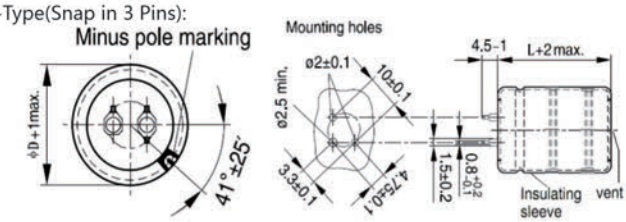
■ Outline drawing Unit:Mm

K-Type(Snap in 2 Pins):

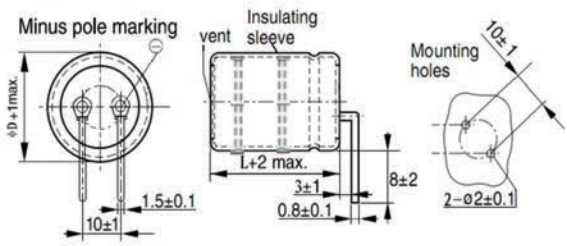


Note: if the snap-in capacitor height is ≥50mm, than add 2 grooves

L-Type(Snap in 3 Pins):

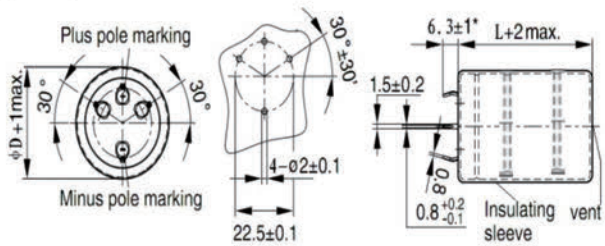


X-Type (Long Lead 2 Pin):



Note: If the snap-in capacitor height is ≤45mm, than add 1 groove

M-Type(Snap in 4 Pins):



■ LVA series: 85℃ 3000 hours anti-vibration snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
100 2A (125)	680	0.20	300	230	1.10	22x25	LVA2A681MP025***
	820	0.20	250	190	1.21	22x30	LVA2A821MP030***
	1000	0.20	210	160	1.53	22x35	LVA2A102MP035***
		0.20	210	160	1.45	25x25	LVA2A102MQ025***
	1200	0.20	180	130	1.63	22x35	LVA2A122MP035***
		0.20	180	130	1.61	25x30	LVA2A122MQ030***
	1500	0.20	140	105	1.81	22x40	LVA2A152MP040***
		0.20	140	105	1.72	25x35	LVA2A152MQ035***
		0.20	140	105	1.83	30x25	LVA2A152MR025***
	1800	0.20	120	85	2.12	25x40	LVA2A182MQ040***
		0.20	120	85	2.10	30x30	LVA2A182MR030***
	2200	0.20	100	70	2.23	25x45	LVA2A222MQ045***
		0.20	100	70	2.32	30x35	LVA2A222MR035***
		0.20	100	70	2.51	35x30	LVA2A222MS030***
	2700	0.20	80	55	2.62	25x50	LVA2A272MQ050***
		0.20	80	55	2.70	30x40	LVA2A272MR040***
	3300	0.20	70	47	3.10	30x45	LVA2A332MR045***
		0.20	70	47	3.05	35x35	LVA2A332MS035***
	3900	0.20	60	40	3.44	30x50	LVA2A392MR050***
		0.20	60	40	3.42	35x40	LVA2A392MS040***
	4700	0.20	50	34	4.03	30x65	LVA2A472MR065***
		0.20	50	34	4.03	35x50	LVA2A472MS050***
	5600	0.20	45	32	4.60	30x75	LVA2A562MR075***
		0.20	45	32	4.60	35x55	LVA2A562MS055***
	6800	0.20	42	29	5.10	30x90	LVA2A682MR090***
		0.20	42	29	5.10	35x65	LVA2A682MS065***
	8200	0.20	39	26	6.10	30x100	LVA2A822MR100***
		0.20	39	26	6.10	35x75	LVA2A822MS075***
	10000	0.20	36	23	6.80	35x90	LVA2A103MS090***
		0.20	36	23	6.80	40x70	LVA2A103MB070***
	12000	0.20	33	19	7.90	35x110	LVA2A123MS110***
		0.20	33	19	7.90	40x80	LVA2A123MB080***
	15000	0.20	30	16	8.80	40x100	LVA2A153MB100***
		0.20	30	16	8.80	45x90	LVA2A153MV090***
200 2D (250)	220	0.15	580	500	1.10	22x25	LVA2D221MP025***
	270	0.15	490	400	1.21	22x30	LVA2D271MP030***
	330	0.15	400	330	1.41	22x30	LVA2D331MP030***
		0.15	400	330	1.40	25x25	LVA2D331MQ025***
	390	0.15	330	280	1.61	22x35	LVA2D391MP035***
		0.15	330	280	1.61	25x30	LVA2D391MQ030***
	470	0.15	280	260	1.51	22x35	LVA2D471MP035***
		0.15	280	260	1.81	22x40	LVA2D471MP040***
		0.15	280	230	1.81	25x30	LVA2D471MQ030***
		0.15	280	230	1.81	30x25	LVA2D471MR025***
	560	0.15	235	200	2.03	22x45	LVA2D561MP045***
		0.15	235	200	2.10	30x30	LVA2D561MR030***
		0.15	235	200	2.30	30x40	LVA2D561MR040***
		0.15	235	200	2.02	35x25	LVA2D561MS025***
	680	0.15	195	160	2.11	22x50	LVA2D681MP050***
		0.15	195	160	2.31	25x40	LVA2D681MQ040***
		0.15	195	160	2.42	30x35	LVA2D681MR035***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
200 2D (250)	820	0.15	160	135	2.11	22x60	LVA2D821MP060***
		0.15	160	135	2.31	25x40	LVA2D821MQ040***
		0.15	160	135	2.41	30x30	LVA2D821MR030***
		0.15	160	135	2.53	35x30	LVA2D821MS030***
	1000	0.15	130	110	2.83	22x80	LVA2D102MP080***
		0.15	130	110	2.83	25x60	LVA2D102MQ060***
		0.15	130	110	2.83	30x45	LVA2D102MR045***
		0.15	130	110	2.83	35x35	LVA2D102MS035***
		0.15	130	110	2.83	35x40	LVA2D102MS040***
	1200	0.15	120	90	3.42	30x50	LVA2D122MR050***
		0.15	120	90	3.20	35x40	LVA2D122MS040***
	1500	0.15	105	80	3.80	25x80	LVA2D152MQ080***
		0.15	105	80	3.60	30x50	LVA2D152MR050***
		0.15	110	80	3.70	35x40	LVA2D152MS040***
	1800	0.15	96	80	4.22	30x60	LVA2D182MR060***
		0.15	96	80	4.12	35x50	LVA2D182MS050***
	2200	0.15	88	71	4.62	30x75	LVA2D222MR075***
		0.15	88	71	4.52	35x55	LVA2D222MS055***
	2700	0.15	80	63	5.21	30x85	LVA2D272MR085***
		0.15	80	63	5.11	35x65	LVA2D272MS065***
	3300	0.15	71	55	6.25	30x105	LVA2D332MR105***
		0.15	71	55	6.16	35x75	LVA2D332MS075***
	3900	0.15	63	49	7.15	35x85	LVA2D392MS085***
		0.15	63	49	7.02	40x60	LVA2D392MB060***
	4700	0.15	55	40	7.68	35x105	LVA2D472MS105***
		0.15	55	40	7.53	40x70	LVA2D472MB070***
	5600	0.15	49	33	8.24	40x90	LVA2D562MB090***
		0.15	49	33	8.15	45x80	LVA2D562MV080***
250 2E (300)	180	0.15	1110	890	0.94	22x25	LVA2E181MP025***
	220	0.15	910	730	1.12	22x30	LVA2E221MP030***
		0.15	910	730	1.13	25x25	LVA2E221MQ025***
	270	0.15	750	600	1.23	22x35	LVA2E271MP035***
		0.15	750	600	1.43	25x30	LVA2E271MQ030***
		0.15	750	600	1.43	30x25	LVA2E271MR025***
	330	0.15	610	490	1.52	22x50	LVA2E331MP050***
		0.15	610	490	1.52	25x30	LVA2E331MQ030***
		0.15	610	490	1.53	30x25	LVA2E331MR025***
	390	0.15	520	410	1.62	22x60	LVA2E391MP060***
		0.15	520	410	1.62	25x35	LVA2E391MQ035***
		0.15	520	410	1.64	30x30	LVA2E391MR030***
	470	0.15	430	340	1.82	30x30	LVA2E471MR030***
		0.15	430	340	1.82	35x25	LVA2E471MS025***
	560	0.15	360	290	2.05	25x45	LVA2E561MQ045***
		0.15	360	290	2.05	30x35	LVA2E561MR035***
	680	0.15	300	240	2.35	30x40	LVA2E681MR040***
		0.15	300	240	2.35	35x30	LVA2E681MS030***
	820	0.15	250	200	2.85	25x60	LVA2E821MQ060***
		0.15	250	200	2.85	30x45	LVA2E821MR045***
		0.15	250	200	2.85	35x35	LVA2E821MS035***
	1000	0.15	200	165	3.02	30x50	LVA2E102MR050***
		0.15	200	165	3.20	35x40	LVA2E102MS040***

■ LVA series: 85℃ 3000 hours anti-vibration snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	1200	0.15	170	149	3.43	30x55	LVA2E122MR055***
		0.15	170	149	3.43	35x40	LVA2E122MS040***
	1500	0.15	165	135	3.66	30x65	LVA2E152MR065***
		0.15	165	135	3.66	35x45	LVA2E152MS045***
	1800	0.15	160	131	3.91	30x75	LVA2E182MR075***
		0.15	160	131	3.91	35x55	LVA2E182MS055***
	2200	0.15	149	120	4.50	30x85	LVA2E222MR085***
		0.15	149	120	4.40	35x65	LVA2E222MS065***
	2700	0.15	135	112	5.20	30x105	LVA2E272MR105***
		0.15	135	112	5.10	35x75	LVA2E272MS075***
	3300	0.15	131	103	6.00	35x90	LVA2E332MS090***
		0.15	131	103	5.90	40x70	LVA2E332MB070***
	3900	0.15	120	95	6.70	40x80	LVA2E392MB080***
		0.15	120	95	6.60	45x70	LVA2E392MV070***
	4700	0.15	112	86	7.80	40x100	LVA2E472MB100***
		0.15	112	86	7.70	45x80	LVA2E472MV080***
315 2F (365)	100	0.15	2000	1600	0.67	22x25	LVA2F101MP025***
	120	0.15	2000	1600	0.74	22x25	LVA2F121MP025***
	150	0.15	1330	1100	0.86	22x30	LVA2F151MP030***
		0.15	1330	1100	0.85	25x25	LVA2F151MQ025***
	180	0.15	1110	890	0.97	22x35	LVA2F181MP035***
		0.15	1110	890	0.96	25x30	LVA2F181MQ030***
		0.15	1110	890	1.14	30x25	LVA2F181MR025***
	220	0.15	910	730	1.11	25x35	LVA2F221MQ035***
		0.15	910	730	1.23	30x30	LVA2F221MR030***
		0.15	910	730	1.32	35x25	LVA2F221MS025***
	270	0.15	740	600	1.31	30x30	LVA2F271MR030***
		0.15	740	600	1.30	35x25	LVA2F271MS025***
	330	0.15	610	490	1.42	25x45	LVA2F331MQ045***
		0.15	610	490	1.41	30x35	LVA2F331MR035***
	390	0.15	520	410	1.62	30x40	LVA2F391MR040***
		0.15	520	410	1.60	35x30	LVA2F391MS030***
	470	0.15	430	345	1.81	30x45	LVA2F471MR045***
		0.15	430	345	1.81	35x35	LVA2F471MS035***
350 2V (400)	82	0.15	2450	1950	0.65	22x25	LVA2V820MP025***
	100	0.15	2000	1600	0.78	22x25	LVA2V101MP025***
	120	0.15	1670	1330	0.82	25x25	LVA2V121MQ025***
	150	0.15	1330	1070	0.96	22x35	LVA2V151MP035***
		0.15	1330	1070	0.95	25x30	LVA2V151MQ030***
	180	0.15	1110	890	1.12	25x35	LVA2V181MQ035***
		0.15	1110	890	1.12	30x30	LVA2V181MR030***
	220	0.15	920	730	1.22	25x35	LVA2V221MQ035***
		0.15	920	730	1.22	30x30	LVA2V221MR030***
	270	0.15	745	595	1.43	30x35	LVA2V271MR035***
		0.15	745	595	1.43	35x30	LVA2V271MS030***
	330	0.15	610	485	1.63	30x40	LVA2V331MR040***
		0.15	610	485	1.63	35x30	LVA2V331MS030***
	390	0.15	515	410	1.74	30x40	LVA2V391MR040***
		0.15	515	410	1.80	35x35	LVA2V391MS035***
	470	0.15	430	340	2.05	30x45	LVA2V471MR045***
		0.15	430	340	2.00	35x40	LVA2V471MS040***
	560	0.15	360	290	2.31	35x45	LVA2V561MS045***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	680	0.15	360	290	2.62	35x50	LVA2V681MS050***
	820	0.15	280	200	2.82	35x60	LVA2V821MS060***
	1000	0.15	250	180	3.02	30x70	LVA2V102MR070***
		0.15	260	190	2.98	35x55	LVA2V102MS055***
	1200	0.15	230	160	3.50	30x85	LVA2V122MR085***
		0.15	240	170	3.40	35x65	LVA2V122MS065***
	1500	0.15	210	150	4.10	30x90	LVA2V152MR090***
		0.15	220	160	4.00	35x75	LVA2V152MS075***
	1800	0.15	180	130	4.70	35x90	LVA2V182MS090***
		0.15	190	140	4.60	40x70	LVA2V182MB070***
	2200	0.15	160	120	5.40	35x110	LVA2V222MS110***
		0.15	170	130	5.30	40x80	LVA2V222MB080***
	2700	0.15	130	100	5.90	40x100	LVA2V272MB100***
		0.15	140	110	5.80	45x70	LVA2V272MV070***
400 2G (450)	68	0.15	2810	2320	0.55	22x25	LVA2G680MP025***
	82	0.15	2430	1945	0.64	22x25	LVA2G820MP025***
	100	0.15	1995	1590	0.71	22x30	LVA2G101MP030***
		0.15	1995	1590	0.71	25x25	LVA2G101MQ025***
	120	0.15	1660	1330	0.80	22x35	LVA2G121MP035***
		0.15	1660	1330	0.80	25x30	LVA2G121MQ030***
		0.15	1660	1330	0.80	30x25	LVA2G121MR025***
	150	0.15	1330	1065	0.91	22x35	LVA2G151MP035***
		0.15	1330	1065	0.95	25x30	LVA2G151MQ030***
		0.15	1330	1065	0.95	30x25	LVA2G151MR025***
	180	0.15	1110	890	1.10	22x40	LVA2G181MP040***
		0.15	1110	890	1.21	25x35	LVA2G181MQ035***
		0.15	1110	890	1.21	30x30	LVA2G181MR030***
		0.15	1110	890	1.21	35x25	LVA2G181MS025***
	220	0.15	910	730	1.06	22x45	LVA2G221MP045***
		0.15	910	730	1.22	22x50	LVA2G221MP050***
		0.15	910	730	1.22	25x40	LVA2G221MQ040***
		0.15	910	730	1.22	30x35	LVA2G221MR035***
		0.15	910	730	1.22	35x30	LVA2G221MS030***
	270	0.15	740	600	1.41	22x50	LVA2G271MP050***
		0.15	740	600	1.56	25x40	LVA2G271MQ040***
		0.15	740	600	1.56	25x45	LVA2G271MQ045***
		0.15	740	600	1.56	30x40	LVA2G271MR040***
		0.15	740	600	1.56	35x35	LVA2G271MS035***
	330	0.15	610	490	1.62	22x55	LVA2G331MP055***
		0.15	610	490	1.62	25x50	LVA2G331MQ050***
		0.15	610	490	1.70	30x40	LVA2G331MR040***
		0.15	610	490	1.70	35x35	LVA2G331MS035***
	390	0.15	515	415	1.81	22x65	LVA2G391MP065***
		0.15	515	415	1.81	25x55	LVA2G391MQ055***
		0.15	515	415	1.82	30x50	LVA2G391MR050***
		0.15	515	415	1.82	35x30	LVA2G391MS030***
	470	0.15	425	345	2.04	22x75	LVA2G471MP075***
		0.15	425	345	2.04	25x60	LVA2G471MQ060***
		0.15	425	345	2.04	30x40	LVA2G471MR040***
		0.15	425	345	2.04	30x45	LVA2G471MR045***
		0.15	425	345	2.04	35x40	LVA2G471MS040***
		0.15	425	345	2.04	35x35	LVA2G471MS035***

■ LVA series: 85℃ 3000 hours anti-vibration snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	560	0.15	360	290	2.30	25x80	LVA2G561MQ080***
		0.15	360	290	2.30	25x70	LVA2G561MQ070***
		0.15	360	290	2.10	30x60	LVA2G561MR060***
		0.15	360	290	2.20	35x45	LVA2G561MS045***
		0.15	350	270	2.30	35x50	LVA2G561MS050***
	680	0.15	350	270	2.55	25x80	LVA2G681MQ080***
		0.15	350	270	2.51	30x60	LVA2G681MR060***
		0.15	350	270	2.41	35x45	LVA2G681MS045***
		0.15	342	260	2.45	35x50	LVA2G681MS050***
	820	0.15	342	260	2.90	25x90	LVA2G821MQ090***
		0.15	342	260	2.85	30x70	LVA2G821MR070***
		0.15	342	260	2.60	35x50	LVA2G821MS050***
		0.15	342	260	2.70	35x55	LVA2G821MS055***
		0.15	300	250	2.80	35x60	LVA2G821MS060***
		0.15	300	250	2.80	35x65	LVA2G821MS065***
	1000	0.15	200	117	3.60	25x110	LVA2G102MQ110***
		0.15	200	117	3.60	30x90	LVA2G102MR090***
		0.15	200	117	3.60	35x55	LVA2G102MS055***
		0.15	200	117	3.60	35x60	LVA2G102MS060***
		0.15	200	117	3.60	35x65	LVA2G102MS065***
		0.15	200	117	3.60	35x70	LVA2G102MS070***
		0.15	200	117	3.60	35x75	LVA2G102MS075***
		0.15	200	117	3.60	40x50	LVA2G102MB050***
		0.15	200	117	3.60	45x50	LVA2G102MV050***
	1200	0.15	180	105	4.10	35x63	LVA2G122MS063***
		0.15	180	105	4.10	35x65	LVA2G122MS065***
		0.15	180	105	4.10	35x70	LVA2G122MS070***
		0.15	180	105	4.10	35x80	LVA2G122MS080***
		0.15	180	105	4.10	35x85	LVA2G122MS085***
		0.15	180	105	4.10	35x90	LVA2G122MS090***
		0.15	180	105	4.10	40x60	LVA2G122MB060***
		0.15	180	105	4.10	40x65	LVA2G122MB065***
		0.15	180	105	4.10	40x70	LVA2G122MB070***
		0.15	180	105	4.10	40x80	LVA2G122MB080***
		0.15	180	105	4.10	45x70	LVA2G122MV070***
400 2G (450)	1500	0.15	160	100	4.50	40x65	LVA2G152MS065***
		0.15	160	100	4.50	40x70	LVA2G152MS070***
		0.15	160	100	4.50	35x80	LVA2G152MS080***
		0.15	160	100	4.50	35x85	LVA2G152MS085***
		0.15	160	100	4.50	35x100	LVA2G152MS100***
		0.15	160	100	4.50	40x80	LVA2G152MB080***
		0.15	160	100	4.50	45x70	LVA2G152MV070***
		0.15	160	100	4.50	45x75	LVA2G152MV075***
	1800	0.15	140	90	5.30	35x90	LVA2G182MS090***
		0.15	140	90	5.30	35x95	LVA2G182MS095***
		0.15	140	90	5.30	35x100	LVA2G182MS100***
		0.15	140	90	5.30	35x110	LVA2G182MS110***
		0.15	140	90	5.30	40x80	LVA2G182MB080***
		0.15	140	90	5.30	40x85	LVA2G182MB085***
		0.15	140	90	5.30	40x90	LVA2G182MB090***
		0.15	140	90	5.30	40x100	LVA2G182MB100***
		0.15	140	90	5.30	45x90	LVA2G182MV090***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	2200	0.15	120	85	6.30	35x110	LVA2G222MS110***
		0.15	120	85	6.30	40x85	LVA2G222MB85***
		0.15	120	85	6.30	40x90	LVA2G222MB090***
		0.15	120	85	6.30	40x100	LVA2G222MB0100***
		0.15	120	85	6.30	45x80	LVA2G222MV080***
		0.15	120	85	6.30	45x90	LVA2G222MV90***
	2500	0.15	110	80	6.80	40x90	LVA2G252MB090***
		0.15	110	80	6.80	45x80	LVA2G252MV080***
	2700	0.15	100	70	7.10	45x90	LVA2G272MV090***
		0.15	100	70	7.10	45x100	LVA2G272MV100***
	3300	0.15	90	60	7.40	45x100	LVA2G332MV100***
		0.15	90	60	7.40	45x110	LVA2G332MV110***
450 2W (500)	68	0.15	2930	2345	0.57	22x30	LVA2W680MP030***
	82	0.15	2430	1945	0.70	25x35	LVA2W820MQ035***
	100	0.15	1995	1600	0.72	22x35	LVA2W101MP035***
		0.15	1995	1600	0.73	25x30	LVA2W101MQ030***
	120	0.15	1660	1330	0.80	22x40	LVA2W121MP040***
		0.15	1660	1330	0.84	25x35	LVA2W121MQ035***
		0.15	1660	1330	0.84	25x40	LVA2W121MQ040***
		0.15	1660	1330	0.84	30x30	LVA2W121MR030***
	150	0.15	1330	1070	0.89	22x45	LVA2W151MP045***
		0.15	1330	1070	0.95	25x40	LVA2W151MQ040***
		0.15	1330	1070	0.99	30x35	LVA2W151MR035***
		0.15	1330	1070	0.99	35x30	LVA2W151MS030***
	180	0.15	1110	895	1.11	22x50	LVA2W181MP050***
		0.15	1110	895	1.23	25x45	LVA2W181MQ045***
		0.15	1110	895	1.23	30x40	LVA2W181MR040***
		0.15	1110	895	1.23	35x30	LVA2W181MS030***
	220	0.15	915	730	1.32	22x60	LVA2W221MP060***
		0.15	915	730	1.20	25x50	LVA2W221MQ050***
		0.15	915	730	1.32	30x40	LVA2W221MR040***
	270	0.15	740	590	1.40	22x70	LVA2W271MP070***
		0.15	740	590	1.50	25x50	LVA2W271MQ050***
		0.15	740	590	1.50	30x40	LVA2W271MR040***
	330	0.15	610	490	1.65	22x70	LVA2W331MP070***
		0.15	610	490	1.65	25x50	LVA2W331MQ050***
		0.15	610	490	1.65	30x40	LVA2W331MR040***
		0.15	610	490	1.65	35x35	LVA2W331MS035***
	390	0.15	520	415	1.71	25x60	LVA2W391MQ060***
		0.15	520	415	1.71	30x45	LVA2W391MR045***
		0.15	520	415	1.71	35x40	LVA2W391MS040***
	470	0.15	430	342	1.93	25x70	LVA2W471MQ070***
		0.15	430	342	1.93	30x50	LVA2W471MR050***
		0.15	430	342	1.93	35x45	LVA2W471MS045***
	560	0.15	360	320	2.25	25x70	LVA2W561MQ070***
		0.15	360	320	2.25	30x60	LVA2W561MR060***
		0.15	360	320	2.25	35x50	LVA2W561MS050***
	680	0.15	280	240	2.70	25x90	LVA2W681MQ090***
		0.15	280	240	2.70	30x65	LVA2W681MR065***
		0.15	290	230	2.80	35x55	LVA2W681MS055***
	820	0.15	260	210	3.20	30x80	LVA2W821MR080***
		0.15	270	200	3.10	35x60	LVA2W821MS060***

■ LVA series: 85℃ 3000 hours anti-vibration snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	1000	0.15	240	180	4.00	30x100	LVA2W102MR100***
		0.15	250	170	3.90	35x65	LVA2W102MS065***
	1200	0.15	220	150	4.30	35x90	LVA2W122MS090***
		0.15	230	140	4.20	40x70	LVA2W122MB070***
	1500	0.15	190	120	4.60	35x90	LVA2W152MS090***
		0.15	200	110	4.50	40x70	LVA2W152MB070***
	1800	0.15	170	90	5.10	35x110	LVA2W182MS110***
		0.15	180	80	5.00	40x80	LVA2W182MB080***
	2200	0.15	150	70	5.50	40x100	LVA2W222MB100***
		0.15	160	60	5.40	45x80	LVA2W222MV080***
500 2H (550)	100	0.15	1995	1600	0.91	25x30	LVA2H101MQ030***
		0.15	1995	1600	0.91	30x25	LVA2H101MR025***
	120	0.15	1665	1330	1.00	30x30	LVA2H121MR030***
		0.15	1665	1330	1.00	35x25	LVA2H121MS025***
	150	0.15	1330	1065	1.21	30x35	LVA2H151MR035***
		0.15	1330	1065	1.21	35x30	LVA2H151MS030***
	180	0.15	1110	890	1.42	30x40	LVA2H181MR040***
		0.15	1110	890	1.31	35x30	LVA2H181MS030***
	220	0.15	910	730	1.62	30x45	LVA2H221MR045***
		0.15	910	730	1.51	35x35	LVA2H221MS035***
	270	0.15	740	595	1.80	30x50	LVA2H271MR050***
		0.15	740	595	1.71	35x40	LVA2H271MS040***
	330	0.15	610	485	2.10	30x55	LVA2H331MR055***
		0.15	610	485	2.00	35x45	LVA2H331MS045***
	390	0.15	520	415	2.30	30x60	LVA2H391MR060***
		0.15	520	415	2.20	35x50	LVA2H391MS050***
	470	0.15	460	370	2.50	30x70	LVA2H471MR070***
		0.15	460	370	2.40	35x55	LVA2H471MS055***
	560	0.15	410	330	2.70	30x80	LVA2H561MR080***
		0.15	410	330	2.60	35x60	LVA2H561MS060***
	680	0.15	360	280	3.00	30x100	LVA2H681MR100***
		0.15	360	280	2.90	35x70	LVA2H681MS070***
	820	0.15	310	240	3.40	35x80	LVA2H821MS080***
		0.15	310	240	3.30	40x65	LVA2H821MB065***
	1000	0.15	270	210	3.80	40x80	LVA2H102MB080***
		0.15	270	210	3.70	45x60	LVA2H102MV060***
	1200	0.15	230	180	4.20	40x90	LVA2H122MB090***
		0.15	230	180	4.10	45x70	LVA2H122MV070***
550 2Y (600)	100	0.15	1330	1065	0.76	25x35	LVA2Y101MQ035***
		0.15	1330	1065	0.76	30x30	LVA2Y101MR030***
	120	0.15	1110	890	0.88	30x35	LVA2Y121MR035***
		0.15	1110	890	0.88	35x30	LVA2Y121MS030***
	150	0.15	910	730	1.00	30x40	LVA2Y151MR040***
		0.15	910	730	1.00	35x35	LVA2Y151MS035***
	180	0.15	740	595	1.10	30x45	LVA2Y181MR045***
		0.15	740	595	1.10	35x35	LVA2Y181MS035***
	220	0.15	610	485	1.30	30x50	LVA2Y221MR050***
		0.15	610	485	1.30	35x40	LVA2Y221MS040***

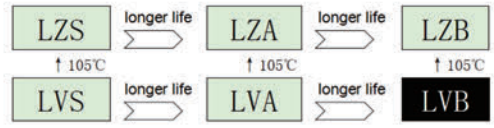
WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
550 2Y (600)	270	0.15	520	415	1.50	30x55	LVA2Y271MR055***
		0.15	520	415	1.50	35x45	LVA2Y271MS045***
	330	0.15	460	370	1.80	30x60	LVA2Y331MR060***
		0.15	460	370	1.80	35x50	LVA2Y331MS050***
	390	0.15	410	330	2.00	30x70	LVA2Y391MR070***
		0.15	410	330	2.00	35x55	LVA2Y391MS055***
	470	0.15	360	280	2.30	30x80	LVA2Y471MR080***
		0.15	360	280	2.30	35x60	LVA2Y471MS060***
	560	0.15	310	240	2.60	30x90	LVA2Y561MR090***
		0.15	310	240	2.60	35x70	LVA2Y561MS070***
	680	0.15	270	210	3.00	30x110	LVA2Y681MR110***
		0.15	270	210	2.90	35x80	LVA2Y681MS080***
	820	0.15	230	180	3.30	35x110	LVA2Y821MS110***
		0.15	230	180	3.20	40x80	LVA2Y821MB080***
	1000	0.15	210	150	3.60	40x90	LVA2Y102MB090***
		0.15	210	150	3.50	45x70	LVA2Y102MV070***
	1200	0.15	180	120	4.10	40x100	LVA2Y122MB100***
		0.15	180	120	4.00	45x80	LVA2Y122MV080***
600 2S (650)	82	0.15	1510	1210	0.64	25x40	LVA2S820MQ040***
		0.15	1510	1210	0.64	30x30	LVA2S820MR030***
	100	0.15	1260	980	0.76	25x50	LVA2S101MQ050***
		0.15	1260	980	0.76	30x35	LVA2S101MR035***
	120	0.15	1080	850	0.88	30x40	LVA2S121MR040***
		0.15	1080	850	0.88	35x35	LVA2S121MS035***
	150	0.15	890	690	1.00	30x45	LVA2S151MR045***
		0.15	890	690	1.00	35x40	LVA2S151MS040***
	180	0.15	720	580	1.10	30x50	LVA2S181MR050***
		0.15	720	580	1.10	35x40	LVA2S181MS040***
	220	0.15	580	460	1.30	30x55	LVA2S221MR055***
		0.15	580	460	1.30	35x45	LVA2S221MS045***
	270	0.15	510	410	1.40	30x60	LVA2S271MR060***
		0.15	510	410	1.40	35x50	LVA2S271MS050***
	330	0.15	450	310	1.70	30x70	LVA2S331MR070***
		0.15	450	310	1.70	35x55	LVA2S331MS055***
	390	0.15	400	290	1.90	30x80	LVA2S391MR080***
		0.15	400	290	1.90	35x60	LVA2S391MS060***
	470	0.15	350	260	2.20	30x90	LVA2S471MR090***
		0.15	350	260	2.20	35x65	LVA2S471MS065***
	560	0.15	300	230	2.50	30x100	LVA2S561MR100***
		0.15	300	230	2.50	35x70	LVA2S561MS070***
	680	0.15	260	200	2.90	30x110	LVA2S681MR110***
		0.15	260	200	2.80	35x80	LVA2S681MS080***
	820	0.15	220	170	3.20	35x110	LVA2S821MS110***
		0.15	220	170	3.10	40x90	LVA2S821MB090***
	1000	0.15	200	140	3.50	40x100	LVA2S102MB100***
		0.15	200	140	3.40	45x80	LVA2S102MV080***
	1200	0.15	170	110	3.80	40x110	LVA2S122MB110***
		0.15	170	110	3.60	45x90	LVA2S122MV090***

*** Indicates terminal type, length, and sleeve color.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LVB series 85℃ 5000 hours





- **Rohs requirements**
- **85℃ for 5000 hours, anti-vibration product**
- **Used in high-vibration equipment such as automotive electronics, generators, electric vehicles, and punching machines**

■ Product description

Item	Characteristic		
Operating temperature range	-40℃ ~ +85℃	-25℃ ~ +85℃	
Rated voltage(WV/V)	350V ~ 450V	460V ~ 500V	
Capacitance(CAP/C)	68 ~ 1800μF		
Tolerance(CAP/C)	±20% (25℃, 120Hz)		
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)		
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	350 ~ 500V	
	DF	0.15	
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	350 ~ 450V	460 ~ 500
	Z(-25℃/Z(+25℃)	4	
	Z(-40℃/Z(+25℃)	8	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6		
	C(-25℃/C(+25℃)≥0.7		

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	6000h	>100000h	5000h	5000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

■ Ripple current correction factor

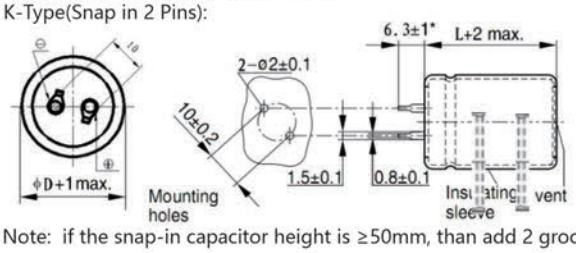
Temp.℃	40	55	70	85
Coefficient	2.3	2.1	1.8	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.16	1.30	1.40

Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

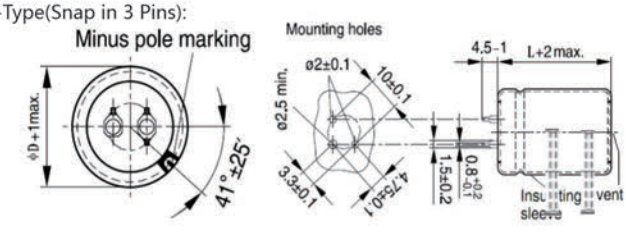
■ Outline drawing Unit:Mm

K-Type(Snap in 2 Pins):

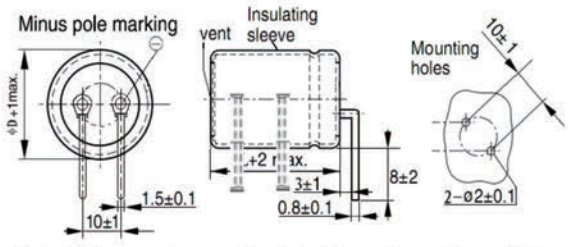


Note: if the snap-in capacitor height is ≥50mm, than add 2 grooves

L-Type(Snap in 3 Pins):

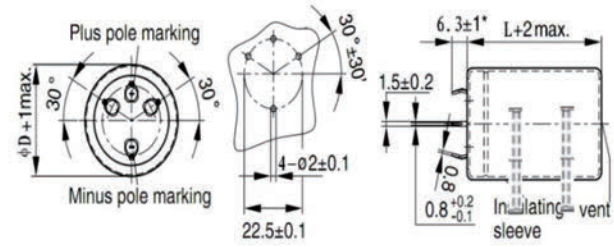


X-Type (Long Lead 2 Pin):



Note: If the snap-in capacitor height is ≤45mm, than add 1 groove

M-Type(Snap in 4 Pins):



■ LVB series: 85℃ 5000 hours anti-vibration snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	82	0.15	2329	1941	0.64	22x25	LVB2V820MP025***
	100	0.15	1910	1592	0.8	22x25	LVB2V101MP025***
	120	0.15	1592	1327	0.82	22x30	LVB2V121MP030***
		0.15	1592	1327	0.81	22x25	LVB2V121MP025***
	150	0.15	1274	1062	0.94	22x35	LVB2V151MP035***
		0.15	1274	1062	0.94	25x30	LVB2V151MQ030***
	180	0.15	1062	885	1.1	22x40	LVB2V181MP040***
		0.15	1062	885	1.1	30x25	LVB2V181MR025***
	220	0.15	869	724	1.2	22x45	LVB2V221MP045***
		0.15	869	724	1.2	25x35	LVB2V221MQ035***
		0.15	869	724	1.2	30x30	LVB2V221MR030***
		0.15	869	724	1.3	35x25	LVB2V221MS025***
	270	0.15	708	590	1.4	25x45	LVB2V271MQ045***
		0.15	708	590	1.4	30x35	LVB2V271MR035***
	330	0.15	580	483	1.6	25x50	LVB2V331MQ050***
		0.15	580	483	1.6	35x30	LVB2V331MS030***
	390	0.15	491	409	1.7	30x40	LVB2V391MR040***
		0.15	491	409	1.8	35x35	LVB2V391MS035***
	470	0.15	407	339	2.0	30x45	LVB2V471MR045***
		0.15	407	339	2.0	35x40	LVB2V331MS040***
	560	0.15	342	285	2.3	35x45	LVB2V561MS045***
	680	0.15	642	535	2.6	35x50	LVB2V681MS050***
	820	0.15	234	195	2.8	35x60	LVB2V821MS060***
400 2G (450)	68	0.15	2809	2341	0.55	22x25	LVB2G680MP025***
	82	0.15	2329	1941	0.65	22x25	LVB2G820MP025***
	100	0.15	1910	1592	0.7	22x30	LVB2G101MP030***
		0.15	1910	1592	0.7	25x25	LVB2G101MQ025***
	120	0.15	1592	1327	0.79	22x30	LVB2G121MP030***
	150	0.15	1274	1062	0.9	22x35	LVB2G151MP035***
		0.15	1274	1062	0.89	25x30	LVB2G121MQ030***
	180	0.15	1062	885	1	22x40	LVB2G181MP040***
		0.15	1062	885	1	25x30	LVB2G181MQ030***
	220	0.15	869	724	1.1	22x50	LVB2G221MP050***
		0.15	869	724	1.2	25x40	LVB2G221MQ040***
	270	0.15	708	590	1.3	25x45	LVB2G271MQ045***
		0.15	708	590	1.5	30x30	LVB2G271MR030***
	330	0.15	580	483	1.6	25x45	LVB2G331MQ045***
		0.15	580	483	1.7	30x35	LVB2G331MR035***
	390	0.15	491	409	1.8	35x30	LVB2G391MS030***
		0.15	491	409	1.9	30x40	LVB2G391MR040***
	470	0.15	407	339	2.1	35x35	LVB2G471MS035***
	560	0.15	342	285	2.3	35x40	LVB2G561MS040***
	680	0.15	282	235	2.7	35x45	LVB2G681MS045***
	820	0.15	233	194	3.1	35x50	LVB2G821MS050***
	1000	0.15	128	107	3.7	35x65	LVB2G102MS065***
	1200	0.15	118	98	4.1	35x70	LVB2G122MS070***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (470)	100	0.15	1910	1592	0.71	22x30	LVB2I101MP030***
		0.15	1910	1592	0.72	25x25	LVB2I101MQ025***
	120	0.15	1592	1327	0.81	22x35	LVB2I121MP035***
		0.15	1592	1327	0.82	25x30	LVB2I121MQ030***
	150	0.15	1274	1062	0.96	25x30	LVB2I151MQ030***
	180	0.15	1062	885	1.1	25x35	LVB2I181MQ035***
		0.15	1062	885	1.2	30x30	LVB2I181MR030***
	220	0.15	869	724	1.2	25x40	LVB2I221MQ040***
		0.15	869	724	1.3	30x30	LVB2I221MR030***
	270	0.15	708	590	1.3	25x45	LVB2I271MQ045***
		0.15	708	590	1.4	30x35	LVB2I271MR035***
	330	0.15	580	483	1.7	30x40	LVB2I331MR040***
	390	0.15	491	409	1.8	30x45	LVB2I391MR045***
		0.15	491	409	1.9	35x35	LVB2I391MS035***
	470	0.15	407	339	2.1	30x50	LVB2I471MR050***
		0.15	407	339	2.2	35x40	LVB2I471MS040***
	560	0.15	342	285	2.4	35x45	LVB2I561MS045***
	680	0.15	282	235	2.8	35x50	LVB2I681MS050***
	820	0.15	233	194	3.2	35x60	LVB2I821MS060***
	1000	0.15	128	107	4	40x60	LVB2I102MB060***
450 2W (500)	68	0.15	2809	2341	0.57	22x25	LVB2W680MP025***
	82	0.15	2329	1941	0.68	22x30	LVB2W820MP030***
	100	0.15	1910	1592	0.73	25x25	LVB2W101MQ025***
	120	0.15	1592	1327	0.8	22x35	LVB2W121MP035***
		0.15	1592	1327	0.8	25x30	LVB2W121MQ030***
	150	0.15	1274	1062	0.95	22x45	LVB2W151MP045***
		0.15	1274	1062	0.95	25x35	LVB2W151MQ035***
	180	0.15	1062	885	1.1	25x40	LVB2W181MQ040***
		0.15	1062	885	1.1	30x30	LVB2W181MR030***
	220	0.15	869	724	1.2	25x45	LVB2W221MQ045***
		0.15	869	724	1.3	30x35	LVB2W221MR035***
	270	0.15	708	590	1.5	30x40	LVB2W271MR040***
	330	0.15	576	480	1.7	30x45	LVB2W331MR045***
	390	0.15	491	409	1.9	35x40	LVB2W391MS040***
	470	0.15	407	339	2.2	30x50	LVB2W471MR050***
	560	0.15	342	285	2.4	35x50	LVB2W561MS050***
	680	0.15	282	235	2.8	35x55	LVB2W681MS055***
	820	0.15	233	194	3.2	35x60	LVB2W821MS060***
	1000	0.15	128	107	4.1	35x80	LVB2W102MS080***
		0.15	128	107	4.1	40x65	LVB2W102MB065***
	1200	0.15	103	86	4.8	40x65	LVB2W122MB065***
	1500	0.15	83	69	5.5	40x90	LVB2W152MB090***
		0.15	83	69	5.6	45x80	LVB2W152MV080***
		0.15	83	69	5.6	50x80	LVB2W152MJ080***
	1800	0.15	70	58	6.1	45x100	LVB2W182MV100***
		0.15	70	58	6.1	50x90	LVB2W182MJ090***

■ LVB series: 85℃ 5000 hours anti-vibration snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	390	0.15	269	224	1.5	35x50	LVB2H391MS050***
		0.15	269	224	1.5	40x45	LVB2H391MB045***
	470	0.15	222	185	1.9	35x60	LVB2H471MS060***
		0.15	222	185	1.9	40x50	LVB2H471MB050***
		0.15	222	185	1.9	45x40	LVB2H471MV040***
	560	0.15	186	155	2.1	35x60	LVB2H561MS060***
		0.15	186	155	2.1	40x50	LVB2H561MB050***
		0.15	186	155	2.2	45x40	LVB2H561MV040***
	680	0.15	154	128	2.4	35x80	LVB2H681MS080***
		0.15	154	128	2.4	40x70	LVB2H681MB070***
		0.15	154	128	2.4	45x55	LVB2H681MV055***
	820	0.15	127	106	2.6	35x90	LVB2H821MS090***
		0.15	127	106	2.6	40x70	LVB2H821MB070***
	1000	0.15	104	87	3.1	40x80	LVB2H102MB080***
		0.15	104	87	3.1	45x70	LVB2H102MV070***
	1200	0.15	86	72	3.4	40x90	LVB2H122MB090***
		0.15	86	72	3.4	45x80	LVB2H122MV080***
		0.15	86	72	3.4	50x70	LVB2H122MJ070***
	1500	0.15	68	57	3.8	45x100	LVB2H152MV100***
		0.15	68	57	3.8	50x90	LVB2H152MJ090***
	1800	0.15	58	48	4.1	50x105	LVB2H182MJ105***

*** Indicates terminal type, length, and sleeve color.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LZS series 105℃ 2000 hours

LZS longer life LZA longer life LZB
↑105℃ ↑105℃ ↑105℃
LVS longer life LVA longer life LVB



- Rohs requirements
- 105℃ for 2000 hours, anti-vibration product
- Used in high-vibration equipment such as automotive electronics, generators, electric vehicles, and punching machines

■ Product description

Item	Characteristic					
Operating temperature range	-40℃ ~ +105℃			-25℃ ~ +105℃		
Rated voltage(WV/V)	63V ~ 450V			460V ~ 550V		
Capacitance(CAP/C)	68 ~ 10000μF					
Tolerance(CAP/C)	±20% (25℃, 120Hz)					
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)					
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	63	80 ~ 100	160 ~ 450	460 ~ 550	
	DF	0.25	0.20	0.15	0.15	
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)		63~100	160~200	250~450	460 ~ 500
	Z(-25℃/Z(+25℃)		4			
	Z(-40℃/Z(+25℃)		15	10	8	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6					
	C(-25℃/C(+25℃)≥0.7					

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	4000h	>180000h	2000h	3000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

■ Ripple current correction factor

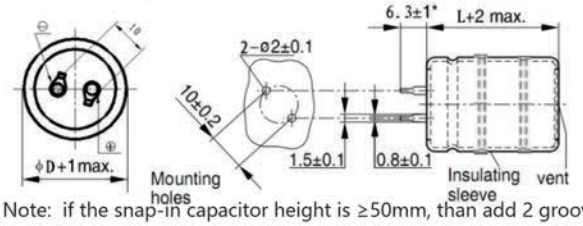
UR(V) \ Temp.℃	40	55	85	105
<160	2.1	1.8	1.5	1.0
≥160	3.0	2.8	2.0	1.0

UR(V) \ Freq.	50/60Hz	120Hz	1KHz	10KHz	≥50KHz
≤100	0.95	1.00	1.13	1.19	1.20
160-250	0.87	1.00	1.32	1.45	1.50
≥315	0.80	1.00	1.30	1.41	1.43

Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

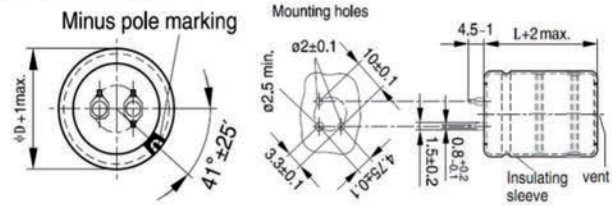
■ Outline drawing Unit:Mm

K-Type(Snap in 2 Pins):

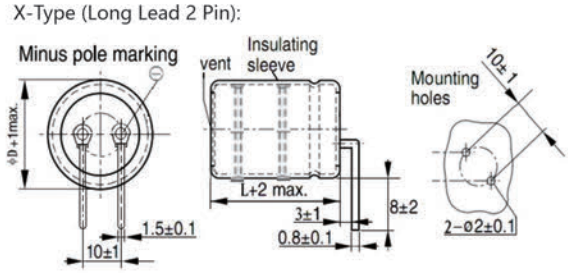


Note: if the snap-in capacitor height is ≥50mm, than add 2 grooves

L-Type(Snap in 3 Pins):

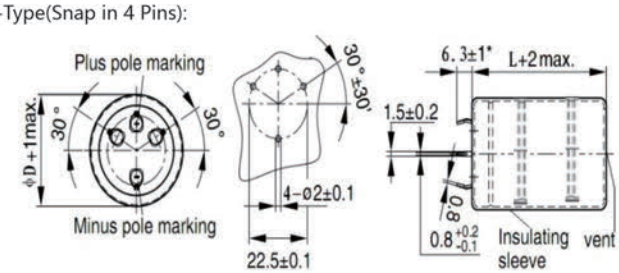


X-Type (Long Lead 2 Pin):



Note: If the snap-in capacitor height is ≤45mm, than add 1 groove

M-Type(Snap in 4 Pins):



■ LZS series: 105℃ 2000 hours anti-vibration snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
63 1J (79)	1200	0.25	233	155	1.30	22x25	LZS1J122MP025***
	1800	0.25	155	103	1.50	22x30	LZS1J182MP030***
		0.25	155	103	1.50	25x25	LZS1J182MQ025***
	2200	0.25	126	84	1.70	22x35	LZS1J222MP035***
		0.25	126	84	1.80	25x30	LZS1J222MQ030***
	2700	0.25	104	69	2.00	22x40	LZS1J272MP040***
		0.25	104	69	2.00	25x35	LZS1J272MQ035***
		0.25	104	69	2.00	30x25	LZS1J272MR025***
	3300	0.25	84	56	2.30	22x50	LZS1J332MP050***
		0.25	84	56	2.30	25x40	LZS1J332MQ040***
		0.25	84	56	2.30	30x30	LZS1J332MR030***
		0.25	84	56	2.40	35x25	LZS1J332MS025***
	3900	0.25	72	48	2.40	25x45	LZS1J392MQ045***
		0.25	72	48	2.60	30x35	LZS1J392MR035***
	4700	0.25	60	40	2.60	25x50	LZS1J472MQ050***
		0.25	60	40	2.90	30x40	LZS1J472MR040***
		0.25	60	40	2.90	35x30	LZS1J472MS030***
	5600	0.25	50	33	3.30	30x45	LZS1J562MR045***
		0.25	50	33	3.30	35x35	LZS1J562MS035***
	6800	0.25	41	27	3.80	30x50	LZS1J682MR050***
		0.25	41	27	3.70	35x40	LZS1J682MS040***
	8200	0.25	35	23	4.20	35x45	LZS1J822MS045***
	10000	0.25	29	19	4.70	35x50	LZS1J103MS050***
80 1K (100)	820	0.20	330	220	1.10	22x25	LZS1K821KP025***
	1000	0.20	280	185	1.30	22x25	LZS1K102MP025***
	1200	0.20	233	155	1.40	22x30	LZS1K122MP030***
		0.20	233	155	1.40	25x25	LZS1K122MQ025***
	1500	0.20	188	125	1.60	22x35	LZS1K152MP035***
		0.20	188	125	1.60	25x30	LZS1K152MQ030***
	1800	0.20	155	103	1.80	22x40	LZS1K182MP040***
		0.20	155	103	1.80	30x25	LZS1K182MR025***
	2200	0.20	126	84	2.00	25x35	LZS1K222MQ035***
		0.20	126	84	2.10	30x30	LZS1K222MR030***
		0.20	126	84	2.20	35x25	LZS1K222MS025***
	2700	0.20	104	69	2.50	25x45	LZS1K272MQ045***
		0.20	104	69	2.50	30x35	LZS1K272MR035***
	3300	0.20	84	56	2.80	30x40	LZS1K332MR040***
		0.20	84	56	2.70	35x30	LZS1K332MS030***
	3900	0.20	72	48	3.20	30x45	LZS1K392MR045***
		0.20	72	48	3.10	35x35	LZS1K392MS035***
	4700	0.20	60	40	3.60	30x50	LZS1K472MR050***
		0.20	60	40	3.50	35x40	LZS1K472MS040***
	5600	0.20	50	33	3.90	35x45	LZS1K562MS045***
	6800	0.20	41	27	4.20	35x50	LZS1K682MS050***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
100 2A (125)	560	0.20	495	330	1.10	22x25	LZS2A561MP025***
	820	0.20	338	225	1.40	22x30	LZS2A821MP030***
		0.20	338	225	1.40	25x25	LZS2A821MQ025***
	1000	0.20	279	186	1.60	22x35	LZS2A102MP035***
		0.20	279	186	1.60	25x30	LZS2A102MQ030***
	1200	0.20	233	155	1.80	25x35	LZS2A122MQ035***
		0.20	233	155	1.70	30x25	LZS2A122MR025***
	1500	0.20	186	124	2.00	25x40	LZS2A152MQ040***
		0.20	186	124	2.00	30x30	LZS2A152MR030***
		0.20	186	124	2.10	35x25	LZS2A152MS025***
	1800	0.20	155	103	2.30	25x45	LZS2A182MQ045***
		0.20	155	103	2.30	30x35	LZS2A182MR035***
	2200	0.20	126	84	2.60	30x40	LZS2A222MR040***
		0.20	126	84	2.50	35x30	LZS2A222MS030***
	2700	0.20	104	69	3.00	30x45	LZS2A272MR045***
		0.20	104	69	2.90	35x35	LZS2A272MS035***
	3300	0.20	84	56	3.30	30x50	LZS2A332MR050***
		0.20	84	56	3.30	35x40	LZS2A332MS040***
	3900	0.20	72	48	3.70	35x45	LZS2A392MS045***
	4700	0.20	60	40	4.20	35x50	LZS2A472MS050***
160 2C (200)	330	0.15	630	420	1.20	22x25	LZS2C331MP025***
	390	0.15	533	355	1.40	22x30	LZS2C391MP030***
	470	0.15	443	295	1.50	22x35	LZS2C471MP035***
		0.15	443	295	1.60	25x25	LZS2C471MQ025***
	560	0.15	374	249	1.60	22x40	LZS2C561MP040***
		0.15	374	249	1.70	25x30	LZS2C561MQ030***
	680	0.15	308	205	1.70	22x45	LZS2C681MP045***
		0.15	308	205	1.80	25x35	LZS2C681MQ035***
		0.15	308	205	1.80	30x25	LZS2C681MR025***
	820	0.15	255	170	2.00	22x50	LZS2C821MP050***
		0.15	255	170	2.00	25x40	LZS2C821MQ040***
		0.15	255	170	2.00	30x30	LZS2C821MR030***
		0.15	255	170	2.00	35x25	LZS2C821MS025***
	1000	0.15	209	139	2.00	25x45	LZS2C102MQ045***
		0.15	209	139	2.20	30x35	LZS2C102MR035***
	1200	0.15	174	116	2.20	25x50	LZS2C122MQ050***
		0.15	174	116	2.30	30x40	LZS2C122MR040***
		0.15	174	116	2.40	35x30	LZS2C122MS030***
	1500	0.15	140	93	2.50	30x45	LZS2C152MR045***
		0.15	140	93	2.60	35x35	LZS2C152MS035***
	1800	0.15	116	77	3.00	35x45	LZS2C182MS045***
	2200	0.15	95	63	3.10	35x50	LZS2C222MS050***
	2700	0.15	77	51	3.80	35x55	LZS2C222MS055***
	3300	0.15	63	42	4.40	35x60	LZS2C332MS060***

■ LZS series: 105℃ 2000 hours anti-vibration snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
200 2D (250)	220	0.15	945	630	1.10	22x25	LZS2D221MP025***
	270	0.15	773	515	1.20	22x30	LZS2D271MP030***
	330	0.15	630	420	1.30	22x30	LZS2D331MP030***
		0.15	630	420	1.40	25x25	LZS2D331MQ025***
	390	0.15	533	355	1.40	22x35	LZS2D391MP035***
	470	0.15	441	296	1.50	22x40	LZS2D471MP040***
		0.15	441	296	1.50	25x30	LZS2D471MQ030***
		0.15	441	296	1.60	30x25	LZS2D471MR025***
	560	0.15	372	249	1.60	22x45	LZS2D561MP045***
		0.15	372	249	1.70	25x35	LZS2D561MQ035***
	680	0.15	308	205	1.80	22x50	LZS2D681MP050***
		0.15	308	205	1.80	25x40	LZS2D681MQ040***
		0.15	308	205	1.80	30x30	LZS2D681MR030***
		0.15	308	205	2.00	35x25	LZS2D681MS025***
	820	0.15	255	170	2.00	30x35	LZS2D821MR035***
		0.15	255	170	2.10	35x30	LZS2D821MS030***
	1000	0.15	209	139	2.20	30x45	LZS2D102MR045***
		0.15	209	139	2.20	35x35	LZS2D102MS035***
	1200	0.15	174	116	2.20	30x50	LZS2D122MR050***
		0.15	174	116	2.50	35x40	LZS2D122MS040***
	1500	0.15	140	93	2.60	35x45	LZS2D152MS045***
	1800	0.15	116	77	2.70	35x50	LZS2D182MS050***
	2200	0.15	95	63	3.30	35x60	LZS2D222MS060***
250 2E (300)	180	0.15	1155	770	0.94	22x25	LZS2E181MP025***
	220	0.15	945	630	1.10	22x30	LZS2E221MP030***
		0.15	945	630	1.20	25x25	LZS2E221MQ025***
	270	0.15	773	515	1.20	22x35	LZS2E271MP035***
	330	0.15	633	422	1.20	22x40	LZS2E331MP040***
		0.15	633	422	1.30	25x30	LZS2E331MQ030***
		0.15	633	422	1.40	30x25	LZS2E331MR025***
	390	0.15	536	357	1.30	22x45	LZS2E391MP045***
		0.15	536	357	1.40	25x35	LZS2E391MQ035***
	470	0.15	444	296	1.40	22x50	LZS2E471MP050***
		0.15	444	296	1.50	25x40	LZS2E471MQ040***
		0.15	444	296	1.40	30x30	LZS2E471MR030***
		0.15	444	296	1.40	35x25	LZS2E471MS025***
	560	0.15	374	249	1.60	25x45	LZS2E561MQ045***
		0.15	355	249	1.60	30x35	LZS2E561MR035***
		0.15	355	249	1.60	35x30	LZS2E561MS030***
	680	0.15	293	205	1.70	25x50	LZS2E681MQ050***
		0.15	293	205	1.80	30x40	LZS2E681MR040***
	820	0.15	243	170	1.90	25x60	LZS2E821MQ060***
		0.15	243	170	1.90	30x45	LZS2E821MR045***
		0.15	243	170	1.80	35x35	LZS2E821MS035***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	1000	0.15	199	139	1.90	30x50	LZS2E102MR050***
		0.15	199	139	2.00	35x40	LZS2E102MS040***
	1200	0.15	166	116	2.10	35x45	LZS2E122MS045***
	1500	0.15	133	93	2.70	35x50	LZS2E152MS050***
	1800	0.15	111	77	3.00	35x60	LZS2E182MS060***
350 2V (400)	68	0.15	2927	1610	0.60	22x25	LZS2V680MP025***
	100	0.15	1990	1095	0.70	22x30	LZS2V101MP030***
		0.15	1990	1095	0.70	25x25	LZS2V101MQ025***
	120	0.15	1659	912	0.73	22x35	LZS2V121MP035***
	150	0.15	1327	730	0.80	22x40	LZS2V151MP040***
		0.15	1327	730	0.82	25x30	LZS2V151MQ030***
		0.15	1327	730	0.82	30x25	LZS2V151MR025***
	180	0.15	1106	608	0.81	22x45	LZS2V181MP045***
		0.15	1106	608	0.90	25x35	LZS2V181MQ035***
		0.15	1106	608	0.90	30x30	LZS2V181MR030***
	220	0.15	905	498	0.93	22x50	LZS2V221MP050***
		0.15	905	498	0.97	25x40	LZS2V221MQ040***
		0.15	905	498	0.98	35x25	LZS2V221MS025***
	270	0.15	737	406	1.10	25x50	LZS2V271MQ050***
		0.15	737	406	1.10	30x35	LZS2V271MR035***
		0.15	737	406	1.10	35x30	LZS2V271MS030***
	330	0.15	603	332	1.20	30x45	LZS2V331MR045***
		0.15	603	332	1.20	35x35	LZS2V331MS035***
	390	0.15	510	281	1.30	30x50	LZS2V391MR050***
		0.15	510	281	1.40	35x40	LZS2V391MS040***
	470	0.15	424	233	1.40	35x45	LZS2V471MS045***
	560	0.15	355	196	1.50	35x50	LZS2V561MS050***
	680	0.15	293	161	2.00	35x55	LZS2V681MS055***
	820	0.15	242	133	2.30	35x60	LZS2V821MS060***
	1000	0.15	220	110	2.60	35x60	LZS2V102MS060***
400 2G (450)	82	0.15	2430	1200	0.56	22x25	LZS2G820MP025***
	100	0.15	1995	1000	0.61	22x30	LZS2G101MP030***
		0.15	1995	1000	0.61	25x25	LZS2G101MQ025***
	120	0.15	1660	860	0.65	22x35	LZS2G121MP035***
		0.15	1660	860	0.65	25x30	LZS2G121MQ030***
		0.15	1660	860	0.71	30x25	LZS2G121MR025***
	150	0.15	1330	690	0.73	22x40	LZS2G151MP040***
		0.15	1330	690	0.73	25x25	LZS2G151MQ025***
		0.15	1330	690	0.73	30x25	LZS2G151MR025***
	180	0.15	1110	580	0.82	22x40	LZS2G181MP040***
		0.15	1110	580	0.82	25x30	LZS2G181MQ030***
		0.15	1110	580	0.82	22x45	LZS2G181MP045***
		0.15	1110	580	0.82	30x30	LZS2G181MR030***
		0.15	1110	580	0.82	35x25	LZS2G181MS025***

■ LZS series: 105℃ 2000 hours anti-vibration snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	220	0.15	910	470	0.91	22x50	LZS2G221MP050***
		0.15	910	470	0.91	25x45	LZS2G221MQ045***
		0.15	910	470	0.91	30x30	LZS2G221MR030***
	270	0.15	740	380	0.96	22x60	LZS2G271MP060***
		0.15	740	380	0.96	25x45	LZS2G271MQ045***
		0.15	740	380	0.96	30x35	LZS2G271MR035***
		0.15	740	380	0.96	35x30	LZS2G271MS030***
	330	0.15	610	310	1.13	25x55	LZS2G331MQ055***
		0.15	610	310	1.13	30x40	LZS2G331MR040***
		0.15	610	310	1.13	35x35	LZS2G331MS035***
	390	0.15	515	260	1.27	22x65	LZS2G391MP065***
		0.15	515	260	1.27	25x50	LZS2G391MQ050***
		0.15	515	260	1.27	30x40	LZS2G391MR040***
		0.15	515	260	1.27	35x35	LZS2G391MS035***
	470	0.15	425	220	1.33	22x75	LZS2G471MP075***
		0.15	425	220	1.33	25x60	LZS2G471MQ060***
		0.15	425	220	1.33	30x45	LZS2G471MR045***
		0.15	425	220	1.33	30x50	LZS2G471MR050***
		0.15	425	220	1.33	35x40	LZS2G471MS040***
		0.15	425	220	1.33	35x45	LZS2G471MS045***
	560	0.15	360	185	1.52	22x90	LZS2G561MP090***
		0.15	360	185	1.52	25x70	LZS2G561MQ070***
		0.15	360	185	1.52	30x60	LZS2G561MR060***
		0.15	360	185	1.52	35x50	LZS2G561MS050***
		0.15	360	185	1.52	35x55	LZS2G561MS055***
	680	0.15	290	150	1.91	25x80	LZS2G681MQ080***
		0.15	290	150	1.91	30x70	LZS2G681MR070***
		0.15	290	150	1.91	35x45	LZS2G681MS045***
		0.15	290	150	1.91	35x50	LZS2G681MS050***
	820	0.15	240	125	2.22	25x90	LZS2G821MQ090***
		0.15	240	125	2.22	30x80	LZS2G821MR080***
		0.15	240	125	2.22	35x50	LZS2G821MS050***
		0.15	240	125	2.22	35x55	LZS2G821MS055***
		0.15	240	125	2.22	35x60	LZS2G821MS060***
	1000	0.15	200	110	2.61	25x110	LZS2G102MQ110***
		0.15	200	110	2.61	30x80	LZS2G102MR080***
		0.15	200	110	2.61	35x60	LZS2G102MS060***
		0.15	200	110	2.61	35x65	LZS2G102MS065***
		0.15	200	110	2.61	35x70	LZS2G102MS070***
		0.15	200	110	2.61	35x75	LZS2G102MS075***
		0.15	200	110	2.61	40x50	LZS2G102MB050***
		0.15	200	110	2.61	40x60	LZS2G102MB060***
		0.15	200	110	2.61	45x50	LZS2G102MV050***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	1200	0.15	180	105	3.0	30x100	LZS2G122MR100***
		0.15	180	100	3.0	35x63	LZS2G122MS063***
		0.15	180	100	3.0	35x65	LZS2G122MS065***
		0.15	180	105	3.0	35x70	LZS2G122MS070***
		0.15	180	105	3.0	35x80	LZS2G122MS080***
		0.15	180	100	3.0	35x85	LZS2G122MS085***
		0.15	180	100	3.0	40x50	LZS2G122MB050***
		0.15	180	100	3.0	40x60	LZS2G122MB060***
		0.15	180	100	3.0	40x70	LZS2G122MB070***
		0.15	180	100	3.0	40x80	LZS2G122MB080***
		0.15	180	100	3.0	45x50	LZS2G122MV050***
	1500	0.15	160	90	3.5	35x75	LZS2G152MS075***
		0.15	160	90	3.5	35x80	LZS2G152MS080***
		0.15	160	90	3.5	35x85	LZS2G152MS085***
		0.15	160	90	3.5	35x90	LZS2G152MS090***
		0.15	160	90	3.5	35x100	LZS2G152MS100***
		0.15	160	90	3.5	40x80	LZS2G152MB080***
		0.15	160	90	3.5	45x70	LZS2G152MV070***
		0.15	160	90	3.5	45x75	LZS2G152MV075***
	1800	0.15	140	80	3.9	35x88	LZS2G182MS088***
		0.15	140	80	3.9	35x90	LZS2G182MS090***
		0.15	140	80	3.9	35x95	LZS2G182MS095***
		0.15	140	80	3.9	35x100	LZS2G182MS100***
		0.15	140	80	3.9	40x80	LZS2G182MB080***
		0.15	140	80	3.9	40x85	LZS2G182MB085***
		0.15	140	80	3.9	40x90	LZS2G182MB090***
		0.15	140	80	3.9	40x100	LZS2G182MB100***
		0.15	140	80	3.9	45x70	LZS2G182MV070***
	2200	0.15	120	70	4.2	45x90	LZS2G222MV090***
		0.15	120	70	4.2	35x110	LZS2G222MS110***
		0.15	120	70	4.2	40x110	LZS2G222MB110***
		0.15	120	70	4.2	40x95	LZS2G222MB095***
		0.15	120	70	4.2	40x90	LZS2G222MB090***
		0.15	120	70	4.2	45x70	LZS2G222MV070***
	2500	0.15	110	65	4.5	40x90	LZS2G252MB090***
		0.15	110	65	4.5	45x80	LZS2G252MV080***
		0.15	110	65	4.5	45x90	LZS2G252MV090***
	2700	0.15	100	60	4.8	40x100	LZS2G272MB100***
		0.15	100	60	4.8	45x80	LZS2G272MV080***
		0.15	100	60	4.8	45x90	LZS2G272MB100***
	3300	0.15	90	55	5.1	40x120	LZS2G332MB120***
		0.15	90	55	5.1	45x95	LZS2G332MV095***
		0.15	90	55	5.1	45x100	LZS2G332MV100***

■ LZS series: 105℃ 2000 hours anti-vibration snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	68	0.15	3900	1950	0.57	22x30	LZS2W680MP030***
	82	0.15	3200	1610	0.68	25x35	LZS2W820MQ035***
	100	0.15	2650	1320	0.72	22x35	LZS2W101MP035***
		0.15	2650	1320	0.73	25x30	LZS2W101MQ030***
	120	0.15	2210	1100	0.75	22x40	LZS2W121MP040***
		0.15	2210	1100	0.75	25x35	LZS2W121MQ035***
		0.15	2210	1100	0.75	30x30	LZS2W121MR030***
		0.15	2210	1100	0.75	35x25	LZS2W121MS025***
	150	0.15	1760	880	0.85	22x40	LZS2W151MP040***
		0.15	1760	880	0.85	25x35	LZS2W151MQ035***
		0.15	1760	880	0.85	30x30	LZS2W151MR030***
		0.15	1760	880	0.85	35x25	LZS2W151MS025***
		0.15	1760	880	0.85	35x30	LZS2W151MS030***
	220	0.15	1200	600	0.95	25x50	LZS2W221MQ050***
		0.15	1200	600	0.95	30x40	LZS2W221MR040***
		0.15	1200	600	0.95	35x30	LZS2W221MS030***
	270	0.15	980	490	1.13	25x50	LZS2W271MQ050***
		0.15	980	490	1.13	30x40	LZS2W271MR040***
		0.15	980	490	1.13	35x35	LZS2W271MS035***
	330	0.15	800	400	1.26	25x55	LZS2W331MQ055***
		0.15	800	400	1.26	30x45	LZS2W331MR045***
		0.15	800	400	1.26	35x35	LZS2W331MS035***
	390	0.15	680	330	1.33	30x50	LZS2W391MR050***
		0.15	680	330	1.33	35x35	LZS2W391MS035***
	470	0.15	560	280	1.51	25x65	LZS2W471MQ065***
		0.15	560	280	1.51	30x50	LZS2W471MR050***
		0.15	560	280	1.51	35x45	LZS2W471MS045***
	560	0.15	470	230	1.73	25x75	LZS2W561MQ075***
		0.15	470	230	1.73	30x60	LZS2W561MR060***
		0.15	470	230	1.73	35x50	LZS2W561MS050***
	680	0.15	390	190	2.02	30x70	LZS2W681MR070***
		0.15	390	190	2.02	35x50	LZS2W681MS050***
	820	0.15	320	160	2.33	30x80	LZS2W821MR080***
		0.15	320	160	2.33	35x60	LZS2W821MS060***
	1000	0.15	300	140	2.6	30x90	LZS2W102MR090***
		0.15	300	140	2.7	35x70	LZS2W102MS070***
	1500	0.15	280	120	3.01	35x90	LZS2W152MS090***
		0.15	280	120	3.01	40x70	LZS2W152MB070***
	1800	0.15	260	120	3.35	35x110	LZS2W182MS110***
		0.15	260	120	3.35	40x90	LZS2W182MB090***
	2200	0.15	240	180	3.69	40x110	LZS2W222MB110***
		0.15	240	180	3.69	45x90	LZS2W222MV110***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	68	0.15	3900	1950	0.56	22x30	LZS2H680MP030***
	82	0.15	3200	1600	0.65	25x35	LZS2H820MQ035***
	100	0.15	2500	1300	0.67	30x25	LZS2H101MR025***
	120	0.15	2200	1100	0.77	30x30	LZS2H121MR030***
		0.15	2200	1100	0.72	35x25	LZS2H121MS025***
	150	0.15	1700	880	0.85	25x40	LZS2H151MQ040***
		0.15	1700	880	0.85	30x35	LZS2H151MR035***
	180	0.15	1400	700	1.01	30x40	LZS2H181MR040***
		0.15	1400	700	1.01	35x30	LZS2H181MS030***
	220	0.15	1200	600	1.12	30x45	LZS2H221MR045***
		0.15	1200	600	1.12	35x35	LZS2H221MS035***
	270	0.15	980	450	1.29	30x50	LZS2H271MR050***
		0.15	980	450	1.28	35x40	LZS2H271MS040***
	330	0.15	800	400	1.45	30x60	LZS2H331MR060***
		0.15	800	400	1.45	35x45	LZS2H331MS045***
	390	0.15	650	330	1.41	30x70	LZS2H391MR070***
		0.15	650	330	1.41	35x50	LZS2H391MS050***
	470	0.15	560	280	1.55	30x80	LZS2H471MR080***
		0.15	560	280	1.55	35x55	LZS2H471MS055***
	560	0.15	470	230	1.7	30x90	LZS2H561MR090***
		0.15	470	230	1.7	35x65	LZS2H561MS065***
	680	0.15	390	190	2.2	30x110	LZS2H681MR110***
		0.15	390	190	2.2	35x70	LZS2H681MS070***
	820	0.15	310	160	2.6	35x80	LZS2H821MS080***
		0.15	310	160	2.6	40x70	LZS2H821MB070***
	1000	0.15	270	130	2.8	35x90	LZS2H102MS090***
		0.15	270	130	2.8	40x80	LZS2H102MB080***
550 2Y (600)	180	0.15	1470	750	1.08	30x50	LZS2Y181MR050***
		0.15	1470	750	1.08	35x35	LZS2Y181MS035***
	220	0.15	1206	600	1.20	30x55	LZS2Y221MR055***
		0.15	1206	600	1.20	35x40	LZS2Y221MS040***
	270	0.15	990	493	1.32	35x45	LZS2Y271MS045***
	330	0.15	810	425	1.48	35x50	LZS2Y331MS050***
	390	0.15	681	340	1.62	35x60	LZS2Y391MS060***
	470	0.15	560	280	1.95	35x70	LZS2Y471MS070***
	560	0.15	473	237	2.10	35x80	LZS2Y561MS080***
		0.15	473	237	2.10	40x70	LZS2Y561MB070***
	680	0.15	500	395	2.40	35x80	LZS2Y681MS080***
		0.15	500	395	2.40	40x60	LZS2Y681MB060***
	820	0.15	460	351	2.60	35x100	LZS2Y821MS100***
		0.15	460	351	2.60	40x80	LZS2Y821MB080***
	1000	0.15	400	305	2.80	45x80	LZS2Y102MV080***

*** Indicates terminal type, length, and sleeve color.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LZA series 105℃ 3000 hours





- **Rohs requirements**
- **105℃ for 3000 hours, anti-vibration product**
- **Used in high-vibration equipment such as automotive electronics, generators, electric vehicles, and punching machines**

■ Product description

Item	Characteristic					
Operating temperature range	-40℃ ~ +105℃			-25℃ ~ +105℃		
Rated voltage(WV/V)	63V ~ 450V			460V ~ 550V		
Capacitance(CAP/C)	68 ~ 10000μF					
Tolerance(CAP/C)	±20% (25℃, 120Hz)					
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)					
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	63	80 ~ 100	160 ~ 450	460 ~ 550	
	DF	0.25	0.20	0.15	0.15	
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)		63~100	160~200	250~450	460 ~ 500
	Z(-25℃/Z(+25℃)		4			
	Z(-40℃/Z(+25℃)		15	10	8	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6					
	C(-25℃/C(+25℃)≥0.7					

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	5000h	>200000h	3000h	4000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

■ Ripple current correction factor

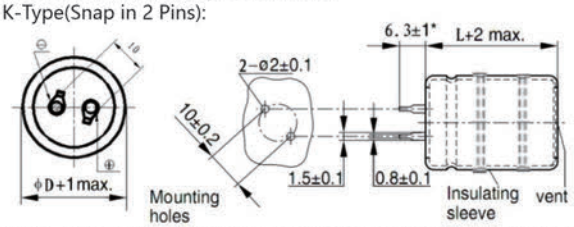
Temp.℃ / UR(V)	40	55	85	105
<160	2.1	1.8	1.5	1.0
≥160	3.0	2.8	2.0	1.0

Freq. / UR(V)	50/60Hz	120Hz	1KHz	10KHz	≥50KHz
≤100	0.95	1.00	1.13	1.19	1.20
160-250	0.87	1.00	1.32	1.45	1.50
≥315	0.80	1.00	1.30	1.41	1.43

Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

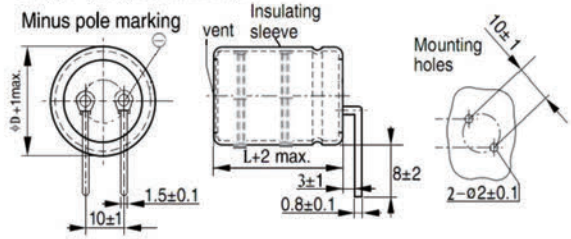
■ Outline drawing Unit:Mm

K-Type(Snap in 2 Pins):



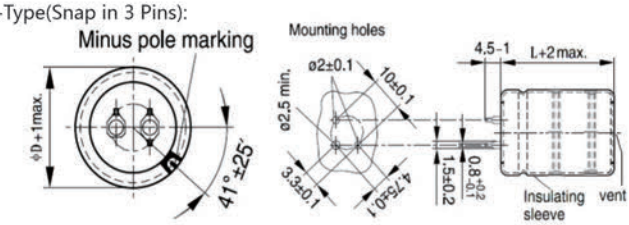
Note: if the snap-in capacitor height is ≥50mm, than add 2 grooves

X-Type (Long Lead 2 Pin):

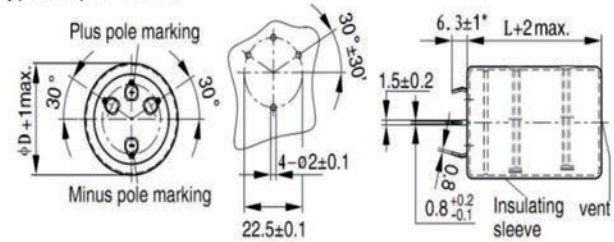


Note: If the snap-in capacitor height is ≤45mm, than add 1 groove

L-Type(Snap in 3 Pins):



M-Type(Snap in 4 Pins):



■ LZA series:105℃ 3000 hours anti-vibration snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
63 1J (79)	1200	0.25	233	155	1.30	22x25	LZA1J122MP025***
	1800	0.25	155	103	1.50	22x30	LZA1J182MP030***
		0.25	155	103	1.50	25x25	LZA1J182MQ025***
	2200	0.25	126	84	1.70	22x35	LZA1J222MP035***
		0.25	126	84	1.80	25x30	LZA1J222MQ030***
	2700	0.25	104	69	2.00	22x40	LZA1J272MP040***
		0.25	104	69	2.00	25x35	LZA1J272MQ035***
		0.25	104	69	2.00	30x25	LZA1J272MR025***
	3300	0.25	84	56	2.30	22x50	LZA1J332MP050***
		0.25	84	56	2.30	25x40	LZA1J332MQ040***
		0.25	84	56	2.30	30x30	LZA1J332MR030***
		0.25	84	56	2.40	35x25	LZA1J332MS025***
	3900	0.25	72	48	2.40	25x45	LZA1J392MQ045***
		0.25	72	48	2.60	30x35	LZA1J392MR035***
	4700	0.25	60	40	2.60	25x50	LZA1J472MQ050***
		0.25	60	40	2.90	30x40	LZA1J472MR040***
		0.25	60	40	2.90	35x30	LZA1J472MS030***
	5600	0.25	50	33	3.30	30x45	LZA1J562MR045***
		0.25	50	33	3.30	35x35	LZA1J562MS035***
	6800	0.25	41	27	3.80	30x50	LZA1J682MR050***
		0.25	41	27	3.70	35x40	LZA1J682MS040***
	8200	0.25	35	23	4.20	35x45	LZA1J822MS045***
	10000	0.25	29	19	4.70	35x50	LZA1J103MS050***
80 1K (100)	820	0.20	330	220	1.10	22x25	LZA1K821KP025***
	1000	0.20	280	185	1.30	22x25	LZA1K102MP025***
	1200	0.20	233	155	1.40	22x30	LZA1K122MP030***
		0.20	233	155	1.40	25x25	LZA1K122MQ025***
	1500	0.20	188	125	1.60	22x35	LZA1K152MP035***
		0.20	188	125	1.60	25x30	LZA1K152MQ030***
	1800	0.20	155	103	1.80	22x40	LZA1K182MP040***
		0.20	155	103	1.80	30x25	LZA1K182MR025***
	2200	0.20	126	84	2.00	25x35	LZA1K222MQ035***
		0.20	126	84	2.10	30x30	LZA1K222MR030***
		0.20	126	84	2.20	35x25	LZA1K222MS025***
	2700	0.20	104	69	2.50	25x45	LZA1K272MQ045***
		0.20	104	69	2.50	30x35	LZA1K272MR035***
	3300	0.20	84	56	2.80	30x40	LZA1K332MR040***
		0.20	84	56	2.70	35x30	LZA1K332MS030***
	3900	0.20	72	48	3.20	30x45	LZA1K392MR045***
		0.20	72	48	3.10	35x35	LZA1K392MS035***
	4700	0.20	60	40	3.60	30x50	LZA1K472MR050***
		0.20	60	40	3.50	35x40	LZA1K472MS040***
	5600	0.20	50	33	3.90	35x45	LZA1K562MS045***
	6800	0.20	41	27	4.20	35x50	LZA1K682MS050***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
100 2A (125)	560	0.20	495	330	1.10	22x25	LZA2A561MP025***
	820	0.20	338	225	1.40	22x30	LZA2A821MP030***
		0.20	338	225	1.40	25x25	LZA2A821MQ025***
	1000	0.20	279	186	1.60	22x35	LZA2A102MP035***
		0.20	279	186	1.60	25x30	LZA2A102MQ030***
	1200	0.20	233	155	1.80	25x35	LZA2A122MQ035***
		0.20	233	155	1.70	30x25	LZA2A122MR025***
	1500	0.20	186	124	2.00	25x40	LZA2A152MQ040***
		0.20	186	124	2.00	30x30	LZA2A152MR030***
		0.20	186	124	2.10	35x25	LZA2A152MS025***
	1800	0.20	155	103	2.30	25x45	LZA2A182MQ045***
		0.20	155	103	2.30	30x35	LZA2A182MR035***
	2200	0.20	126	84	2.60	30x40	LZA2A222MR040***
		0.20	126	84	2.50	35x30	LZA2A222MS030***
	2700	0.20	104	69	3.00	30x45	LZA2A272MR045***
		0.20	104	69	2.90	35x35	LZA2A272MS035***
	3300	0.20	84	56	3.30	30x50	LZA2A332MR050***
		0.20	84	56	3.30	35x40	LZA2A332MS040***
	3900	0.20	72	48	3.70	35x45	LZA2A392MS045***
	4700	0.20	60	40	4.20	35x50	LZA2A472MS050***
160 2C (200)	330	0.15	630	420	1.20	22x25	LZA2C331MP025***
	390	0.15	533	355	1.40	22x30	LZA2C391MP030***
	470	0.15	443	295	1.50	22x35	LZA2C471MP035***
		0.15	443	295	1.60	25x25	LZA2C471MQ025***
	560	0.15	374	249	1.60	22x40	LZA2C561MP040***
		0.15	374	249	1.70	25x30	LZA2C561MQ030***
	680	0.15	308	205	1.70	22x45	LZA2C681MP045***
		0.15	308	205	1.80	25x35	LZA2C681MQ035***
		0.15	308	205	1.80	30x25	LZA2C681MR025***
	820	0.15	255	170	2.00	22x50	LZA2C821MP050***
		0.15	255	170	2.00	25x40	LZA2C821MQ040***
		0.15	255	170	2.00	30x30	LZA2C821MR030***
		0.15	255	170	2.00	35x25	LZA2C821MS025***
	1000	0.15	209	139	2.00	25x45	LZA2C102MQ045***
		0.15	209	139	2.20	30x35	LZA2C102MR035***
	1200	0.15	174	116	2.20	25x50	LZA2C122MQ050***
		0.15	174	116	2.30	30x40	LZA2C122MR040***
		0.15	174	116	2.40	35x30	LZA2C122MS030***
	1500	0.15	140	93	2.50	30x45	LZA2C152MR045***
		0.15	140	93	2.60	35x35	LZA2C152MS035***
	1800	0.15	116	77	3.00	35x45	LZA2C182MS045***
	2200	0.15	95	63	3.10	35x50	LZA2C222MS050***
	2700	0.15	77	51	3.80	35x55	LZA2C222MS055***
	3300	0.15	63	42	4.40	35x60	LZA2C332MS060***

■ LZA series:105℃ 3000 hours anti-vibration snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
200 2D (250)	220	0.15	945	630	1.10	22x25	LZA2D221MP025***
	270	0.15	773	515	1.20	22x30	LZA2D271MP030***
	330	0.15	630	420	1.30	22x30	LZA2D331MP030***
		0.15	630	420	1.40	25x25	LZA2D331MQ025***
	390	0.15	533	355	1.40	22x35	LZA2D391MP035***
	470	0.15	441	296	1.50	22x40	LZA2D471MP040***
		0.15	441	296	1.50	25x30	LZA2D471MQ030***
		0.15	441	296	1.60	30x25	LZA2D471MR025***
	560	0.15	372	249	1.60	22x45	LZA2D561MP045***
		0.15	372	249	1.70	25x35	LZA2D561MQ035***
	680	0.15	308	205	1.80	22x50	LZA2D681MP050***
		0.15	308	205	1.80	25x35	LZA2D681MQ035***
		0.15	308	205	1.80	30x30	LZA2D681MR030***
		0.15	308	205	2.00	35x25	LZA2D681MS025***
	820	0.15	255	170	2.00	30x35	LZA2D821MR035***
		0.15	255	170	2.10	35x30	LZA2D821MS030***
	1000	0.15	209	139	2.20	30x45	LZA2D102MR045***
		0.15	209	139	2.20	35x35	LZA2D102MS035***
	1200	0.15	174	116	2.20	30x50	LZA2D122MR050***
		0.15	174	116	2.50	35x40	LZA2D122MS040***
	1500	0.15	140	93	2.60	35x45	LZA2D152MS045***
	1800	0.15	116	77	2.70	35x50	LZA2D182MS050***
	2200	0.15	95	63	3.30	35x60	LZA2D222MS060***
250 2E (300)	180	0.15	1155	770	0.94	22x25	LZA2E181MP025***
	220	0.15	945	630	1.10	22x30	LZA2E221MP030***
		0.15	945	630	1.20	25x25	LZA2E221MQ025***
	270	0.15	773	515	1.20	22x35	LZA2E271MP035***
	330	0.15	633	422	1.20	22x40	LZA2E331MP040***
		0.15	633	422	1.30	25x30	LZA2E331MQ030***
		0.15	633	422	1.40	30x25	LZA2E331MR025***
	390	0.15	536	357	1.30	22x45	LZA2E391MP045***
		0.15	536	357	1.40	25x35	LZA2E391MQ035***
	470	0.15	444	296	1.40	22x50	LZA2E471MP050***
		0.15	444	296	1.50	25x40	LZA2E471MQ040***
		0.15	444	296	1.40	30x30	LZA2E471MR030***
		0.15	444	296	1.40	35x25	LZA2E471MS025***
	560	0.15	374	249	1.60	25x45	LZA2E561MQ045***
		0.15	355	249	1.60	30x35	LZA2E561MR035***
		0.15	355	249	1.60	35x30	LZA2E561MS030***
	680	0.15	293	205	1.70	25x50	LZA2E681MQ050***
		0.15	293	205	1.80	30x40	LZA2E681MR040***
	820	0.15	243	170	1.90	25x60	LZA2E821MQ060***
		0.15	243	170	1.90	30x45	LZA2E821MR045***
		0.15	243	170	1.80	35x35	LZA2E821MS035***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	1000	0.15	199	139	1.90	30x50	LZA2E102MR050***
		0.15	199	139	2.00	35x40	LZA2E102MS040***
	1200	0.15	166	116	2.10	35x45	LZA2E122MS045***
	1500	0.15	133	93	2.70	35x50	LZA2E152MS050***
	1800	0.15	111	77	3.00	35x60	LZA2E182MS060***
350 2V (400)	68	0.15	2927	1610	0.60	22x25	LZA2V680MP025***
	100	0.15	1990	1095	0.70	22x30	LZA2V101MP030***
		0.15	1990	1095	0.70	25x25	LZA2V101MQ025***
	120	0.15	1659	912	0.73	22x35	LZA2V121MP035***
	150	0.15	1327	730	0.80	22x40	LZA2V151MP040***
		0.15	1327	730	0.82	25x30	LZA2V151MQ030***
		0.15	1327	730	0.82	30x25	LZA2V151MR025***
	180	0.15	1106	608	0.81	22x45	LZA2V181MP045***
		0.15	1106	608	0.90	25x35	LZA2V181MQ035***
		0.15	1106	608	0.90	30x30	LZA2V181MR030***
	220	0.15	905	498	0.93	22x50	LZA2V221MP050***
		0.15	905	498	0.97	25x40	LZA2V221MQ040***
		0.15	905	498	0.98	35x25	LZA2V221MS025***
	270	0.15	737	406	1.10	25x50	LZA2V271MQ050***
		0.15	737	406	1.10	30x35	LZA2V271MR035***
		0.15	737	406	1.10	35x30	LZA2V271MS030***
	330	0.15	603	332	1.20	30x45	LZA2V331MR045***
		0.15	603	332	1.20	35x35	LZA2V331MS035***
	390	0.15	510	281	1.30	30x50	LZA2V391MR050***
		0.15	510	281	1.40	35x40	LZA2V391MS040***
	470	0.15	424	233	1.40	35x45	LZA2V471MS045***
	560	0.15	355	196	1.50	35x50	LZA2V561MS050***
	680	0.15	293	161	2.00	35x55	LZA2V681MS055***
	820	0.15	242	133	2.30	35x60	LZA2V821MS060***
	1000	0.15	220	110	2.60	35x60	LZA2V102MS060***
400 2G (450)	82	0.15	2430	1200	0.56	22x25	LZA2G820MP025***
	100	0.15	1995	1000	0.61	22x30	LZA2G101MP030***
		0.15	1995	1000	0.61	25x25	LZA2G101MQ025***
	120	0.15	1660	860	0.65	22x35	LZA2G121MP035***
		0.15	1660	860	0.65	25x30	LZA2G121MQ030***
		0.15	1660	860	0.71	30x25	LZA2G121MR025***
	150	0.15	1330	690	0.73	22x40	LZA2G151MP040***
		0.15	1330	690	0.73	25x25	LZA2G151MQ025***
		0.15	1330	690	0.73	30x25	LZA2G151MR025***
	180	0.15	1110	580	0.82	22x40	LZA2G181MP040***
		0.15	1110	580	0.82	25x30	LZA2G181MQ030***
		0.15	1110	580	0.82	22x45	LZA2G181MP045***
		0.15	1110	580	0.82	30x30	LZA2G181MR030***
		0.15	1110	580	0.82	35x25	LZA2G181MS025***

■ LZA series:105℃ 3000 hours anti-vibration snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	220	0.15	910	470	0.91	22x50	LZA2G221MP050***
		0.15	910	470	0.91	25x45	LZA2G221MQ045***
		0.15	910	470	0.91	30x30	LZA2G221MR030***
	270	0.15	740	380	0.96	22x60	LZA2G271MP060***
		0.15	740	380	0.96	25x45	LZA2G271MQ045***
		0.15	740	380	0.96	30x35	LZA2G271MR035***
		0.15	740	380	0.96	35x30	LZA2G271MS030***
	330	0.15	610	310	1.13	25x55	LZA2G331MQ055***
		0.15	610	310	1.13	30x40	LZA2G331MR040***
		0.15	610	310	1.13	35x35	LZA2G331MS035***
	390	0.15	515	260	1.27	22x60	LZA2G391MP060***
		0.15	515	260	1.27	25x50	LZA2G391MQ050***
		0.15	515	260	1.27	30x40	LZA2G391MR040***
		0.15	515	260	1.27	35x35	LZA2G391MS035***
	470	0.15	425	220	1.33	22x70	LZA2G471MP070***
		0.15	425	220	1.33	25x60	LZA2G471MQ060***
		0.15	425	220	1.33	30x45	LZA2G471MR045***
		0.15	425	220	1.33	30x50	LZA2G471MR050***
		0.15	425	220	1.33	35x40	LZA2G471MS040***
		0.15	425	220	1.33	35x45	LZA2G471MS045***
	560	0.15	360	185	1.52	22x90	LZA2G561MP090***
		0.15	360	185	1.52	25x70	LZA2G561MQ070***
		0.15	360	185	1.52	30x60	LZA2G561MR060***
		0.15	360	185	1.52	35x50	LZA2G561MS050***
		0.15	360	185	1.52	35x55	LZA2G561MS055***
	680	0.15	290	150	1.91	25x80	LZA2G681MQ080***
		0.15	290	150	1.91	30x70	LZA2G681MR070***
		0.15	290	150	1.91	35x45	LZA2G681MS045***
		0.15	290	150	1.91	35x50	LZA2G681MS050***
	820	0.15	240	125	2.22	25x90	LZA2G821MQ090***
		0.15	240	125	2.22	30x80	LZA2G821MR080***
		0.15	240	125	2.22	35x50	LZA2G821MS050***
		0.15	240	125	2.22	35x55	LZA2G821MS055***
		0.15	240	125	2.22	35x60	LZA2G821MS060***
	1000	0.15	200	110	2.61	25x100	LZA2G102MQ100***
		0.15	200	110	2.61	30x80	LZA2G102MR080***
		0.15	200	110	2.61	35x60	LZA2G102MS060***
		0.15	200	110	2.61	35x65	LZA2G102MS065***
		0.15	200	110	2.61	35x70	LZA2G102MS070***
		0.15	200	110	2.61	35x75	LZA2G102MS075***
		0.15	200	110	2.61	40x50	LZA2G102MB050***
		0.15	200	110	2.61	40x60	LZA2G102MB060***
		0.15	200	110	2.61	45x50	LZA2G102MV050***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	1200	0.15	180	105	3.0	30x100	LZA2G122MR100***
		0.15	180	100	3.0	35x60	LZA2G122MS060***
		0.15	180	100	3.0	35x65	LZA2G122MS065***
		0.15	180	105	3.0	35x70	LZA2G122MS070***
		0.15	180	105	3.0	35x80	LZA2G122MS080***
		0.15	180	100	3.0	35x85	LZA2G122MS085***
		0.15	180	100	3.0	40x50	LZA2G122MB050***
		0.15	180	100	3.0	40x60	LZA2G122MB060***
		0.15	180	100	3.0	40x70	LZA2G122MB070***
		0.15	180	100	3.0	40x80	LZA2G122MB080***
		0.15	180	100	3.0	45x50	LZA2G122MV050***
	1500	0.15	160	90	3.5	35x70	LZA2G152MS075***
		0.15	160	90	3.5	35x80	LZA2G152MS080***
		0.15	160	90	3.5	35x85	LZA2G152MS085***
		0.15	160	90	3.5	35x90	LZA2G152MS090***
		0.15	160	90	3.5	35x100	LZA2G152MS100***
		0.15	160	90	3.5	40x80	LZA2G152MB080***
		0.15	160	90	3.5	45x70	LZA2G152MV070***
		0.15	160	90	3.5	45x75	LZA2G152MV075***
	1800	0.15	140	80	3.9	35x85	LZA2G182MS085***
		0.15	140	80	3.9	35x90	LZA2G182MS090***
		0.15	140	80	3.9	35x95	LZA2G182MS095***
		0.15	140	80	3.9	35x100	LZA2G182MS100***
		0.15	140	80	3.9	40x80	LZA2G182MB080***
		0.15	140	80	3.9	40x85	LZA2G182MB085***
		0.15	140	80	3.9	40x90	LZA2G182MB090***
		0.15	140	80	3.9	40x100	LZA2G182MB100***
		0.15	140	80	3.9	45x70	LZA2G182MV070***
	2200	0.15	120	70	4.2	35x90	LZA2G222MS090***
		0.15	120	70	4.2	35x100	LZA2G222MS100***
		0.15	120	70	4.2	40x80	LZA2G222MB080***
		0.15	120	70	4.2	40x85	LZA2G222MB085***
		0.15	120	70	4.2	40x90	LZA2G222MB090***
		0.15	120	70	4.2	45x70	LZA2G222MV070***
	2500	0.15	110	65	4.5	40x90	LZA2G252MB090***
		0.15	110	65	4.5	45x80	LZA2G252MV080***
		0.15	110	65	4.5	45x90	LZA2G252MV090***
	2700	0.15	100	60	4.8	40x100	LZA2G272MB100***
		0.15	100	60	4.8	45x80	LZA2G272MV080***
		0.15	100	60	4.8	45x90	LZA2G272MV090***
	3300	0.15	90	55	5.1	40x100	LZA2G332MB100***
		0.15	90	55	5.1	45x90	LZA2G332MV090***
		0.15	90	55	5.1	45x100	LZA2G332MV100***

■ LZA series:105℃ 3000 hours anti-vibration snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	68	0.15	3900	1950	0.57	22x30	LZA2W680MP030***
	82	0.15	3200	1610	0.68	25x35	LZA2W820MQ035***
	100	0.15	2650	1320	0.72	22x35	LZA2W101MP035***
		0.15	2650	1320	0.73	25x30	LZA2W101MQ030***
	120	0.15	2210	1100	0.75	22x40	LZA2W121MP040***
		0.15	2210	1100	0.75	25x35	LZA2W121MQ035***
		0.15	2210	1100	0.75	30x30	LZA2W121MR030***
		0.15	2210	1100	0.75	35x25	LZA2W121MS025***
	150	0.15	1760	880	0.85	22x40	LZA2W151MP040***
		0.15	1760	880	0.85	25x35	LZA2W151MQ035***
		0.15	1760	880	0.85	30x30	LZA2W151MR030***
		0.15	1760	880	0.85	35x25	LZA2W151MS025***
		0.15	1760	880	0.85	35x30	LZA2W151MS030***
	220	0.15	1200	600	0.95	25x50	LZA2W221MQ050***
		0.15	1200	600	0.95	30x40	LZA2W221MR040***
		0.15	1200	600	0.95	35x30	LZA2W221MS030***
	270	0.15	980	490	1.13	25x50	LZA2W271MQ050***
		0.15	980	490	1.13	30x40	LZA2W271MR040***
		0.15	980	490	1.13	35x35	LZA2W271MS035***
	330	0.15	800	400	1.26	25x55	LZA2W331MQ055***
		0.15	800	400	1.26	30x45	LZA2W331MR045***
		0.15	800	400	1.26	35x35	LZA2W331MS035***
	390	0.15	680	330	1.33	30x50	LZA2W391MR050***
		0.15	680	330	1.33	35x35	LZA2W391MS035***
	470	0.15	560	280	1.51	25x60	LZA2W471MQ060***
		0.15	560	280	1.51	30x50	LZA2W471MR050***
		0.15	560	280	1.51	35x45	LZA2W471MS045***
	560	0.15	470	230	1.73	25x70	LZA2W561MQ070***
		0.15	470	230	1.73	30x60	LZA2W561MR060***
		0.15	470	230	1.73	35x50	LZA2W561MS050***
	680	0.15	390	190	2.02	30x70	LZA2W681MR070***
		0.15	390	190	2.02	35x50	LZA2W681MS050***
	820	0.15	320	160	2.33	30x80	LZA2W821MR080***
		0.15	320	160	2.33	35x60	LZA2W821MS060***
	1000	0.15	300	140	2.6	30x90	LZA2W102MR090***
		0.15	300	140	2.7	35x70	LZA2W102MS070***
	1500	0.15	280	120	3.01	35x90	LZA2W152MS090***
		0.15	280	120	3.01	40x70	LZA2W152MB070***
	1800	0.15	260	120	3.35	35x110	LZA2W182MS110***
		0.15	260	120	3.35	40x90	LZA2W182MB090***
	2200	0.15	240	180	3.69	40x110	LZA2W222MB110***
		0.15	240	180	3.69	45x90	LZA2W222MV090***

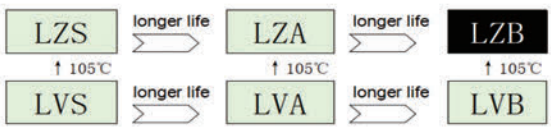
WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	68	0.15	3900	1950	0.56	22x30	LZA2H680MP030***
	82	0.15	3200	1600	0.65	25x35	LZA2H820MQ035***
	100	0.15	2500	1300	0.67	30x25	LZA2H101MR025***
	120	0.15	2200	1100	0.77	30x30	LZA2H121MR030***
		0.15	2200	1100	0.72	35x25	LZA2H121MS025***
	150	0.15	1700	880	0.85	25x40	LZA2H151MQ040***
		0.15	1700	880	0.85	30x35	LZA2H151MR035***
	180	0.15	1400	700	1.01	30x40	LZA2H181MR040***
		0.15	1400	700	1.01	35x30	LZA2H181MS030***
	220	0.15	1200	600	1.12	30x45	LZA2H221MR045***
		0.15	1200	600	1.12	35x35	LZA2H221MS035***
	270	0.15	980	450	1.29	30x50	LZA2H271MR050***
		0.15	980	450	1.28	35x40	LZA2H271MS040***
	330	0.15	800	400	1.45	30x60	LZA2H331MR060***
		0.15	800	400	1.45	35x45	LZA2H331MS045***
	390	0.15	650	330	1.41	30x70	LZA2H391MR070***
		0.15	650	330	1.41	35x50	LZA2H391MS050***
	470	0.15	560	280	1.55	30x80	LZA2H471MR080***
		0.15	560	280	1.55	35x55	LZA2H471MS055***
	560	0.15	470	230	1.7	30x90	LZA2H561MR090***
		0.15	470	230	1.7	35x65	LZA2H561MS065***
	680	0.15	390	190	2.2	30x110	LZA2H681MR110***
		0.15	390	190	2.2	35x70	LZA2H681MS070***
	820	0.15	310	160	2.6	35x80	LZA2H821MS080***
		0.15	310	160	2.6	40x70	LZA2H821MB070***
	1000	0.15	270	130	2.8	35x90	LZA2H102MS090***
		0.15	270	130	2.8	40x80	LZA2H102MB080***
550 2Y (600)	180	0.15	1470	750	1.08	30x50	LZA2Y181MR050***
		0.15	1470	750	1.08	35x35	LZA2Y181MS035***
	220	0.15	1206	600	1.20	30x55	LZA2Y221MR055***
		0.15	1206	600	1.20	35x40	LZA2Y221MS040***
	270	0.15	990	493	1.32	35x45	LZA2Y271MS045***
	330	0.15	810	425	1.48	35x50	LZA2Y331MS050***
	390	0.15	681	340	1.62	35x60	LZA2Y391MS060***
	470	0.15	560	280	1.95	35x70	LZA2Y471MS070***
	560	0.15	473	237	2.10	35x80	LZA2Y561MS080***
		0.15	473	237	2.10	40x70	LZA2Y561MB070***
	680	0.15	500	395	2.40	35x80	LZA2Y681MS080***
		0.15	500	395	2.40	40x60	LZA2Y681MB060***
	820	0.15	460	351	2.60	35x100	LZA2Y821MS100***
		0.15	460	351	2.60	40x80	LZA2Y821MB080***
	1000	0.15	400	305	2.80	45x80	LZA2Y102MV080***

*** Indicates terminal type, length, and sleeve color.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LZB series 105℃ 5000 hours





- **Rohs requirements**
- **105℃ for 5000 hours, anti-vibration product**
- **Used in high-vibration equipment such as automotive electronics, generators, electric vehicles, and punching machines**

■ Product description

Item	Characteristic			
Operating temperature range	-40℃ ~ +105℃		-25℃ ~ +105℃	
Rated voltage(WV/V)	160V ~ 450V		460V ~ 550V	
Capacitance(CAP/C)	100 ~ 3300μF			
Tolerance(CAP/C)	±20% (25℃, 120Hz)			
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) Or 1.5mA, whichever is smaller (25℃, 5Min) C=Nominal capacitance(μF),V=Working voltage(V)			
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	160 ~ 450	460 ~ 550	
	DF	0.15	0.15	
Temperature characteristics (Impedance ratio at 120Hz)	UR(V)	160 ~ 420	450 ~ 500	550
	Z(-25℃/Z(+25℃)	4	7	10
	Z(-40℃/Z(+25℃)	8	12	-
Temperature characteristics (Capacitance ratio at 120hz)	C(-40℃/C(+25℃)≥0.6			
	C(-25℃/C(+25℃)≥0.7			

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	10000h	>250000h	5000h	5000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 30 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

■ Ripple current correction factor

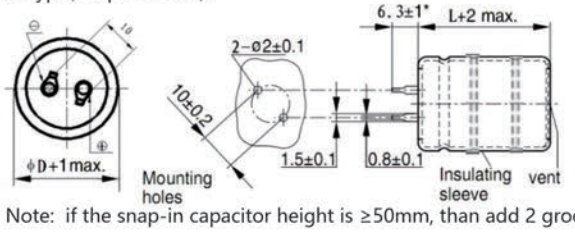
Temp.℃	40	55	85	105
Coefficient	3.0	2.8	2.0	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.15	1.30	1.41

Aluminum electrolytic capacitors age due to self-heating and temperature rise when the ripple current is superimposed, and the use temperature rise will reduce the product life, to keep the product life, please reduce the ripple current during use.

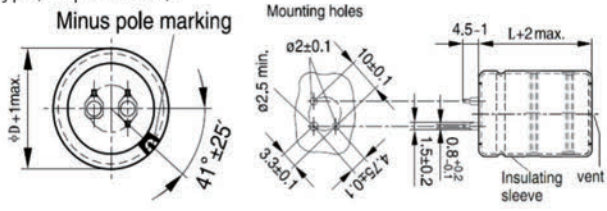
■ Outline drawing Unit:Mm

K-Type(Snap in 2 Pins):

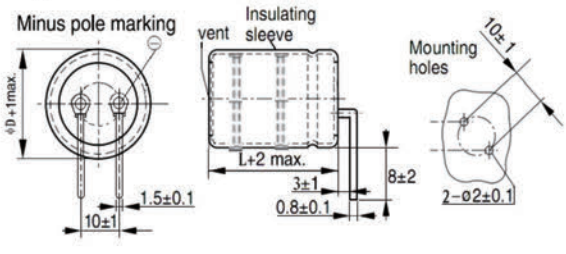


Note: if the snap-in capacitor height is ≥50mm, than add 2 grooves

L-Type(Snap in 3 Pins):

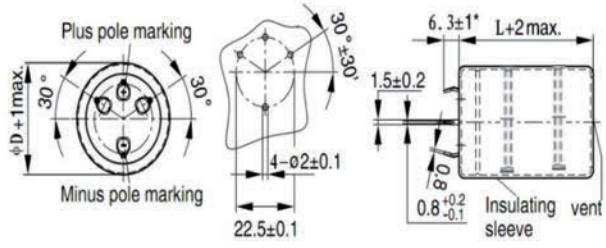


X-Type (Long Lead 2 Pin):



Note: If the snap-in capacitor height is ≤45mm, than add 1 groove

M-Type(Snap in 4 Pins):



■ LZB series: 105℃ 5000 hours anti-vibration snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
160 2C (200)	470	0.15	423	254	1.11	22x35	LZB2C471MP035***
	560	0.15	355	213	1.26	22x40	LZB2C561MP040***
	680	0.15	293	176	1.41	22x40	LZB2C681MP040***
		0.15	293	176	1.33	25x35	LZB2C681MQ035***
	820	0.15	243	146	1.56	22x45	LZB2C821MP045***
		0.15	243	146	1.56	25x40	LZB2C821MQ040***
	1000	0.15	199	119	1.78	22x55	LZB2C102MP055***
		0.15	199	119	1.78	25x45	LZB2C102MQ045***
		0.15	199	119	1.85	30x35	LZB2C102MR035***
	1200	0.15	166	100	2.07	25x50	LZB2C122MQ050***
		0.15	166	100	2.07	30x40	LZB2C122MR040***
		0.15	166	100	2.07	35x35	LZB2C122MS035***
	1500	0.15	133	80	2.30	25x60	LZB2C152MQ060***
		0.15	133	80	2.30	25x70	LZB2C152MQ070***
		0.15	133	80	2.37	30x45	LZB2C152MR045***
	1800	0.15	111	66	2.67	25x70	LZB2C182MQ070***
		0.15	111	66	2.67	30x50	LZB2C182MR050***
		0.15	111	66	2.59	35x40	LZB2C182MS040***
	2200	0.15	90	54	3.04	30x55	LZB2C222MR055***
		0.15	90	54	3.04	30x60	LZB2C222MR060***
		0.15	90	54	2.96	35x45	LZB2C222MS045***
		0.15	90	54	2.96	35x50	LZB2C222MS050***
	2700	0.15	74	44	3.41	35x50	LZB2C272MS050***
		0.15	74	44	3.56	35x55	LZB2C272MS055***
	3300	0.15	60	36	4.00	35x60	LZB2C332MS060***
200 2D (250)	390	0.15	510	306	0.96	22x35	LZB2D391MP035***
	470	0.15	423	254	1.11	22x40	LZB2D471MP040***
	560	0.15	355	213	1.26	22x45	LZB2D561MP045***
		0.15	355	213	1.19	25x35	LZB2D561MQ035***
	680	0.15	293	176	1.41	22x55	LZB2D681MP055***
		0.15	293	176	1.41	25x40	LZB2D681MQ040***
		0.15	293	176	1.41	30x35	LZB2D681MR035***
	820	0.15	243	146	1.63	22x60	LZB2D821MP060***
		0.15	243	146	1.63	25x50	LZB2D821MQ050***
	1000	0.15	199	119	1.85	25x55	LZB2D102MQ055***
		0.15	199	119	1.85	30x40	LZB2D102MR040***
		0.15	199	119	2.00	35x35	LZB2D102MS035***
		0.15	199	119	2.00	35x40	LZB2D102MS040***
	1200	0.15	166	100	2.00	25x65	LZB2D122MQ065***
		0.15	166	100	2.07	30x45	LZB2D122MR045***
		0.15	166	100	2.07	30x60	LZB2D122MR060***
		0.15	166	100	2.22	35x40	LZB2D122MS040***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
200 2D (250)	1500	0.15	133	80	2.44	30x50	LZB2D152MR050***
		0.15	133	80	2.44	30x55	LZB2D152MR055***
		0.15	133	80	2.52	35x45	LZB2D152MS045***
	1800	0.15	111	66	2.74	30x60	LZB2D182MR060***
		0.15	111	66	2.81	35x50	LZB2D182MS050***
		0.15	111	66	2.81	35x55	LZB2D182MS055***
	2200	0.15	90	54	3.19	35x55	LZB2D222MS055***
		0.15	90	54	3.19	35x60	LZB2D222MS060***
	2700	0.15	74	44	3.63	35x70	LZB2D272MS070***
250 2E (300)	270	0.15	737	442	0.81	22x35	LZB2E271MP035***
	330	0.15	603	362	0.96	22x40	LZB2E331MP040***
	390	0.15	510	306	1.04	22x45	LZB2E391MP045***
		0.15	510	306	1.04	25x35	LZB2E391MQ035***
	470	0.15	423	254	1.19	22x50	LZB2E471MP050***
		0.15	423	254	1.19	25x40	LZB2E471MQ040***
	560	0.15	355	213	1.33	22x55	LZB2E561MP055***
		0.15	355	213	1.33	25x45	LZB2E561MQ045***
		0.15	355	213	1.33	30x35	LZB2E561MR035***
	680	0.15	293	176	1.48	25x50	LZB2E681MQ050***
		0.15	293	176	1.56	30x40	LZB2E681MR040***
		0.15	293	176	1.63	35x35	LZB2E681MS035***
	820	0.15	243	146	1.70	25x55	LZB2E821MQ055***
		0.15	243	146	1.78	30x45	LZB2E821MR045***
		0.15	243	146	1.85	35x40	LZB2E821MS040***
	1000	0.15	199	119	2.00	30x50	LZB2E102MR050***
	1200	0.15	166	100	2.22	35x55	LZB2E122MS055***
		0.15	166	100	2.22	35x45	LZB2E122MS045***
		0.15	166	100	2.37	35x50	LZB2E122MS050***
	1500	0.15	133	80	2.67	35x55	LZB2E152MS055***
	1800	0.15	111	66	2.96	35x60	LZB2E182MS060***
315 2F (368)	180	0.15	1106	663	1.0	22x30	LZB2F181MP030***
	220	0.15	905	543	1.1	22x35	LZB2F221MP035***
	270	0.15	737	442	1.2	22x40	LZB2F271MP040***
		0.15	737	442	1.2	25x35	LZB2F271MQ035***
	330	0.15	603	362	1.4	22x45	LZB2F331MP045***
	390	0.15	510	306	1.6	22x50	LZB2F391MP050***
		0.15	510	306	1.6	22x55	LZB2F391MP055***
		0.15	510	306	1.6	25x40	LZB2F391MQ040***
	470	0.15	423	254	1.8	22x60	LZB2F471MP060***
		0.15	423	254	1.8	30x35	LZB2F471MR035***
		0.15	423	254	1.8	35x30	LZB2F471MS030***

■ LZB series: 105℃ 5000 hours anti-vibration snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
315 2F (368)	560	0.15	355	213	2.0	25x55	LZB2F561MQ055***
		0.15	355	213	1.9	30x40	LZB2F561MR040***
		0.15	355	213	2.0	35x35	LZB2F561MS035***
	680	0.15	293	176	2.2	30x50	LZB2F681MR050***
		0.15	293	176	2.3	30x45	LZB2F681MR045***
		0.15	293	176	2.2	35x35	LZB2F681MS035***
	820	0.15	243	146	2.5	30x50	LZB2F821MR050***
		0.15	243	146	2.6	35x40	LZB2F821MS040***
	1000	0.15	199	119	2.9	35x45	LZB2F102MS045***
	1200	0.15	166	100	3.3	35x60	LZB2F122MS060***
		0.15	166	100	3.3	35x55	LZB2F122MS055***
350 2V (400)	120	0.15	1659	995	0.7	22x25	LZB2V121MP025***
	150	0.15	1327	796	0.8	22x30	LZB2V151MP030***
	180	0.15	1106	663	0.9	22x35	LZB2V181MP035***
		0.15	1106	663	0.9	25x30	LZB2V181MQ030***
	220	0.15	905	543	1.0	22x40	LZB2V221MP040***
		0.15	905	543	1.0	25x35	LZB2V221MQ035***
		0.15	905	543	1.0	30x25	LZB2V221MR025***
	270	0.15	737	442	1.3	22x45	LZB2V271MP045***
		0.15	737	442	1.3	22x50	LZB2V271MP050***
		0.15	737	442	1.3	25x35	LZB2V271MQ035***
		0.15	737	442	1.3	30x30	LZB2V271MR030***
	330	0.15	603	362	1.4	22x55	LZB2V331MP055***
		0.15	603	362	1.4	25x45	LZB2V331MQ045***
		0.15	603	362	1.4	30x30	LZB2V331MR030***
	390	0.15	510	306	1.6	25x50	LZB2V391MQ050***
		0.15	510	306	1.6	25x55	LZB2V391MQ055***
		0.15	510	306	1.6	30x35	LZB2V391MR035***
	470	0.15	423	254	1.8	25x55	LZB2V471MQ055***
		0.15	423	254	1.8	30x40	LZB2V471MR040***
		0.15	423	254	1.8	35x35	LZB2V471MS035***
	560	0.15	355	213	1.48	30x55	LZB2V561MR055***
		0.15	355	213	1.48	35x45	LZB2V561MS045***
	680	0.15	293	176	1.78	30x60	LZB2V681MR060***
		0.15	293	176	1.78	35x50	LZB2V681MS050***
	820	0.15	243	146	1.93	35x55	LZB2V821MS055***
		0.15	243	146	1.93	35x60	LZB2V821MS060***
	1000	0.15	199	119	2.07	35x60	LZB2V102MS060***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	150	0.15	1327	708	0.67	22x35	LZB2G151MP035***
		0.15	1327	708	0.67	25x30	LZB2G151MQ030***
	180	0.15	1106	590	0.74	22x40	LZB2G181MP040***
		0.15	1106	590	0.74	25x30	LZB2G181MQ030***
	220	0.15	905	483	0.81	22x45	LZB2G221MP045***
		0.15	905	483	0.81	25x35	LZB2G221MQ035***
		0.15	905	483	0.89	30x30	LZB2G221MR030***
	270	0.15	737	393	0.96	22x50	LZB2G271MP050***
		0.15	737	393	0.96	25x40	LZB2G271MQ040***
		0.15	737	393	0.96	30x30	LZB2G271MR030***
	330	0.15	603	322	1.11	25x50	LZB2G331MQ050***
		0.15	603	322	1.04	30x35	LZB2G331MR035***
		0.15	603	322	1.11	35x30	LZB2G331MS030***
	390	0.15	510	272	1.19	25x55	LZB2G391MQ055***
		0.15	510	357	1.19	30x40	LZB2G391MR040***
		0.15	510	272	1.26	35x30	LZB2G391MS030***
	470	0.15	423	226	1.33	30x45	LZB2G471MR045***
		0.15	423	226	1.41	35x35	LZB2G471MS035***
	560	0.15	355	190	1.56	30x50	LZB2G561MR050***
		0.15	355	190	1.56	35x40	LZB2G561MS040***
	680	0.15	293	156	1.78	35x45	LZB2G681MS045***
	820	0.15	243	170	2.00	35x55	LZB2G821MS055***
	1000	0.15	199	106	2.37	35x60	LZB2G102MS060***
	1200	0.15	166	88	2.74	35x70	LZB2G122MS070***
420 2I (470)	100	0.15	1990	1128	0.52	22x30	LZB2I101MP030***
	120	0.15	1659	940	0.59	22x30	LZB2I121MP030***
		0.15	1659	940	0.59	25x25	LZB2I121MQ025***
	150	0.15	1327	752	0.67	22x35	LZB2I151MP035***
	180	0.15	1106	627	0.74	22x40	LZB2I181MP040***
		0.15	1106	627	0.74	25x30	LZB2I181MQ030***
		0.15	1106	627	0.81	30x25	LZB2I181MR025***
	220	0.15	905	513	0.89	22x45	LZB2I221MP045***
		0.15	905	513	0.89	22x50	LZB2I221MP050***
		0.15	905	513	0.89	25x35	LZB2I221MQ035***
		0.15	905	513	0.89	30x30	LZB2I221MR030***
	270	0.15	737	418	0.96	25x40	LZB2I271MQ040***
		0.15	737	418	0.96	30x30	LZB2I271MR030***
		0.15	737	418	1.04	35x25	LZB2I271MS025***
	330	0.15	603	342	1.11	25x50	LZB2I331MQ050***
		0.15	603	342	1.11	30x35	LZB2I331MR035***
		0.15	603	342	1.19	35x30	LZB2I331MS030***

■ LZB series: 105℃ 5000 hours anti-vibration snap-in capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
420 2I (470)	390	0.15	510	289	1.26	30x40	LZB2I391MR040***
		0.15	510	289	1.26	35x30	LZB2I391MS030***
		0.15	510	289	1.26	35x35	LZB2I391MS035***
	470	0.15	423	240	1.41	30x50	LZB2I471MR050***
		0.15	423	240	1.48	35x40	LZB2I471MS040***
	560	0.15	355	201	1.63	35x40	LZB2I561MS040***
	680	0.15	293	166	1.85	35x50	LZB2I681MS050***
	820	0.15	243	138	2.22	35x55	LZB2I821MS055***
	1000	0.15	199	113	2.52	35x65	LZB2I102MS065***
	1200	0.15	166	94	2.81	35x75	LZB2I122MS075***
450 2W (500)	120	0.15	2212	885	0.59	22x40	LZB2W121MP040***
		0.15	2212	885	0.59	22x35	LZB2W121MP035***
		0.15	2212	885	0.59	25x25	LZB2W121MQ025***
	150	0.15	1769	708	0.67	22x40	LZB2W151MP040***
		0.15	1769	708	0.67	25x30	LZB2W151MQ030***
	180	0.15	1474	590	0.81	22x45	LZB2W181MP045***
		0.15	1474	590	0.81	25x35	LZB2W181MQ035***
		0.15	1474	590	0.81	30x25	LZB2W181MR025***
	220	0.15	1206	483	0.89	22x50	LZB2W221MP050***
		0.15	1206	483	0.89	25x40	LZB2W221MQ040***
		0.15	1206	483	0.89	30x30	LZB2W221MR030***
	270	0.15	983	393	0.96	25x45	LZB2W271MQ045***
		0.15	983	393	0.96	30x35	LZB2W271MR035***
		0.15	983	393	1.04	35x30	LZB2W271MS030***
	330	0.15	804	322	1.11	30x40	LZB2W331MR040***
	390	0.15	680	272	1.26	30x45	LZB2W391MR045***
		0.15	680	272	1.26	35x35	LZB2W391MS035***
		0.15	680	272	1.26	35x40	LZB2W391MS040***
	470	0.15	565	226	1.48	35x40	LZB2W471MS040***
		0.15	565	226	1.48	35x45	LZB2W471MS045***
		0.15	565	226	1.48	35x50	LZB2W471MS050***
	560	0.15	474	190	1.63	35x50	LZB2W561MS050***
	680	0.15	390	156	1.93	35x55	LZB2W681MS055***
		0.15	390	156	1.93	35x60	LZB2W681MS060***
	820	0.15	324	129	2.22	35x65	LZB2W821MS065***
	1000	0.15	265	106	2.52	35x75	LZB2W102MS075***
		0.15	265	106	2.52	40x65	LZB2W102MB065***
	1200	0.15	221	88	2.74	40x75	LZB2W122MB075***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	100	0.15	2654	1062	0.59	25x30	LZB2H101MQ030***
	120	0.15	2212	885	0.67	25x35	LZB2H121MQ035***
		0.15	2212	885	0.67	30x30	LZB2H121MR030***
	150	0.15	2212	708	0.74	30x30	LZB2H151MR030***
	180	0.15	1474	590	0.89	30x35	LZB2H181MR035***
	220	0.15	1206	483	0.74	25x50	LZB2H221MQ050***
		0.15	1206	483	0.96	30x40	LZB2H221MR040***
		0.15	1206	483	0.89	35x35	LZB2H221MS035***
	270	0.15	983	393	1.11	30x50	LZB2H271MR050***
		0.15	983	393	1.11	35x40	LZB2H271MS040***
	330	0.15	804	322	1.19	35x45	LZB2H331MS045***
	390	0.15	680	272	1.33	35x50	LZB2H391MS050***
	470	0.15	565	226	1.48	35x55	LZB2H471MS055***
		0.15	565	226	1.48	35x60	LZB2H471MS060***
	560	0.15	474	190	1.63	35x65	LZB2H561MS065***
		0.15	474	190	1.63	40x50	LZB2H561MB050***
	680	0.15	390	156	1.78	35x70	LZB2H681MS070***
		0.15	390	156	1.78	40x60	LZB2H681MB060***
	820	0.15	324	129	1.93	40x70	LZB2H821MB070***
	1000	0.15	265	106	2.07	45x70	LZB2H102MV070***
	1200	0.15	221	88	2.37	45x80	LZB2H122MV080***
550 2Y (600)	270	0.15	1229	590	0.96	35x50	LZB2Y271MS050***
	330	0.15	1005	483	1.04	35x60	LZB2Y331MS060***
	390	0.15	851	408	1.19	35x65	LZB2Y391MS065***
	470	0.15	706	339	1.33	35x70	LZB2Y471MS070***
		0.15	706	339	1.33	40x65	LZB2Y471MB065***
	560	0.15	592	284	1.48	35x80	LZB2Y561MS080***
		0.15	592	284	1.48	40x70	LZB2Y561MB070***
	680	0.15	488	234	1.70	40x80	LZB2Y681MB080***
		0.15	488	234	1.70	45x70	LZB2Y681MV070***

*** Indicates terminal type, length, and sleeve color.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LPS series 85℃ 2000 hours

LGS longer life LGA longer life LGB
↑ 105℃ ↑ 105℃
LPS longer life LPA higer current LWA



- Rohs requirements
- 85℃ 2000 hours series
- Used for switching power supply, servo, frequency converter, air conditioning, filter circuit, laser spot welding machine, consumer electronics, printed circuit board and other general industrial products

■ Product description

Item	Characteristic							
Operating temperature range	-40℃ ~ +85℃				-25℃ ~ +85℃			
Rated voltage(WV/V)	10V ~ 450V				460V ~ 550V			
Capacitance(CAP/C)	470 ~ 1800000μF							
Tolerance(CAP/C)	±20% (25℃, 120Hz)							
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)							
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	10 ~ 16	25 ~ 35	50	63	80 ~ 100	160 ~ 250	350 ~ 600
	DF	See exact specifications					0.25	0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6							
	C(-25℃/C(+25℃)≥0.7							

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	4000h	>65000h	2000h	2000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage Applied current Application temperature	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
	IR	1.2×IR	IR	IR = 0	IR = 0	
	85℃	40℃	85℃	85℃	85℃	

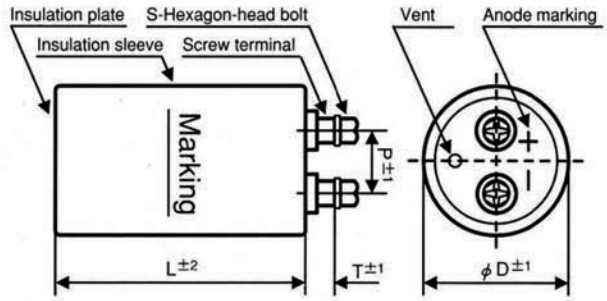
■ Ripple current correction factor

Temp.℃	40	60	70	85
Coefficient	2.7	2.0	1.7	1.0

Freq. / UR(V)	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
≤100	0.95	1.00	1.04	1.10	1.15
160-250	0.90	1.00	1.08	1.16	1.30
≥315	0.80	1.00	1.10	1.25	1.50

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

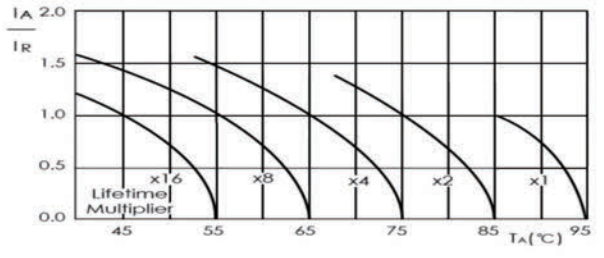
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 85°C
TA:Environment temp

■ LPS series : 85℃ 2000 hours standard screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
10 1A (13)	33000	0.80	33	22	4.5	36x50	LPS1A333MA050***
	39000	0.80	29	19	4.8	36x50	LPS1A393MA050***
	47000	0.80	23	15	5.2	36x70	LPS1A473MA070***
	56000	0.80	20	13	6.1	36x80	LPS1A563MA080***
	68000	0.80	15	10	6.8	36x80	LPS1A683MA080***
	82000	0.80	14	9	7.8	36x100	LPS1A823MA100***
	100000	0.80	12	8	8.8	36x100	LPS1A104MA100***
	120000	0.80	11	7	10.0	36x120	LPS1A124MA120***
	150000	1.00	11	7	10.8	36x120	LPS1A154MA120***
	180000	1.00	9	6	11.2	51x100	LPS1A184MC100***
	220000	1.50	8	5	12.1	51x100	LPS1A224MC100***
	270000	1.50	6	4	12.8	64x96	LPS1A274MD096***
	330000	1.50	6	4	15.3	64x105	LPS1A334MD105***
	390000	1.50	5	3	16.8	64x115	LPS1A394MD115***
	470000	2.00	5	3	17.3	64x130	LPS1A474MD130***
	560000	2.00	5	3	19.0	77x115	LPS1A564ME115***
	680000	2.00	5	3	21.8	77x130	LPS1A684ME130***
	820000	2.00	3	2	24.8	77x155	LPS1A824ME155***
	1000000	2.50	3	2	26.8	77x170	LPS1A105ME170***
	1200000	2.50	3	2	28.8	90x157	LPS1A125MF157***
	1500000	2.50	3	2	31.8	90x170	LPS1A155MF170***
16 1C (20)	22000	0.60	33	22	4.1	36x50	LPS1C223MA050***
	27000	0.60	29	19	4.5	36x50	LPS1C273MA050***
	33000	0.60	24	16	5.0	36x50	LPS1C333MA050***
	39000	0.60	20	13	5.9	36x70	LPS1C393MA070***
	47000	0.60	17	11	6.4	36x80	LPS1C473MA080***
	56000	0.60	15	10	7.3	36x80	LPS1C563MA080***
	68000	0.60	12	8	8.4	36x100	LPS1C683MA100***
	82000	0.80	11	7	8.3	36x100	LPS1C823MA100***
	100000	0.80	9	6	9.5	36x120	LPS1C104MA120***
	120000	0.80	8	5	10.9	36x120	LPS1C124MA120***
	150000	1.00	6	4	11.3	51x100	LPS1C154MC100***
	180000	1.00	5	3	12.8	51x100	LPS1C184MC100***
	220000	1.00	5	3	15.3	64x105	LPS1C224MD105***
	270000	1.00	5	3	16.8	64x105	LPS1C274MD105***
	330000	1.50	5	3	17.6	64x115	LPS1C334MD115***
	390000	1.50	5	3	18.3	64x130	LPS1C394MD130***
	470000	1.50	3	2	21.3	77x115	LPS1C474ME115***
	560000	1.50	3	2	23.6	77x130	LPS1C564ME130***
	680000	1.50	3	2	25.6	77x155	LPS1C684ME155***
	820000	2.00	3	2	28.1	90x157	LPS1C824MF157***
	1000000	2.50	3	2	31.1	90x157	LPS1C105MF157***
	1200000	2.50	3	2	33.2	90x157	LPS1C125MF157***
	1500000	2.50	3	2	35.9	90x170	LPS1C155MF170***
	1800000	2.50	3	2	38.1	90x196	LPS1C185MF196***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
25 1E (32)	15000	0.50	33	22	3.7	36x50	LPS1E153MA050***
	18000	0.50	27	18	4.1	36x50	LPS1E183MA050***
	22000	0.50	24	16	4.5	36x50	LPS1E223MA050***
	27000	0.50	20	13	5.0	36x70	LPS1E273MA070***
	33000	0.50	17	11	5.9	36x80	LPS1E333MA080***
	39000	0.50	14	9	6.7	36x80	LPS1E393MA080***
	47000	0.50	12	8	7.7	36x100	LPS1E473MA100***
	56000	0.60	11	7	7.9	36x100	LPS1E563MA100***
	68000	0.60	9	6	9.1	36x120	LPS1E683MA120***
	82000	0.60	8	5	10.4	36x120	LPS1E823MA120***
	100000	0.80	6	4	10.3	51x100	LPS1E104MC100***
	120000	0.80	6	4	11.7	51x100	LPS1E124MC100***
	150000	0.80	5	3	14.1	64x105	LPS1E154MD105***
	180000	0.80	5	3	15.7	64x105	LPS1E184MD105***
	220000	1.00	5	3	16.1	64x115	LPS1E224MD115***
	270000	1.00	5	3	18.6	64x130	LPS1E274MD130***
	330000	1.00	3	2	21.9	77x105	LPS1E334ME105***
	390000	1.20	3	2	22.0	77x115	LPS1E394ME115***
	470000	1.20	3	2	25.6	77x155	LPS1E474ME155***
	560000	1.20	3	2	27.9	90x130	LPS1E564MF130***
	680000	1.20	3	2	32.5	90x157	LPS1E684MF157***
	820000	1.20	3	2	35.2	90x170	LPS1E824MF170***
35 1V (44)	10000	0.40	36	24	3.4	36x50	LPS1V103MA050***
	12000	0.40	30	20	3.7	36x50	LPS1V123MA050***
	15000	0.40	26	17	4.2	36x70	LPS1V153MA070***
	18000	0.40	21	14	4.9	36x80	LPS1V183MA080***
	22000	0.40	18	12	5.7	36x80	LPS1V223MA080***
	27000	0.40	14	9	6.3	36x100	LPS1V273MA100***
	33000	0.40	14	9	7.2	36x100	LPS1V333MA100***
	39000	0.50	12	8	7.3	36x120	LPS1V393MA120***
	47000	0.50	12	8	8.7	51x100	LPS1V473MC100***
	56000	0.60	12	8	8.6	51x100	LPS1V563MC100***
	68000	0.60	9	6	9.8	51x100	LPS1V683MC100***
	82000	0.60	8	5	11.6	64x105	LPS1V823MD105***
	100000	0.60	6	4	13.3	64x115	LPS1V104MD115***
	120000	0.60	6	4	14.8	64x120	LPS1V124MD120***
	150000	0.80	6	4	14.9	64x130	LPS1V154MD130***
	180000	0.80	5	3	17.0	77x115	LPS1V184ME115***
	220000	0.80	5	3	19.1	77x130	LPS1V224ME130***
	270000	1.00	5	3	20.3	77x155	LPS1V274ME155***
	330000	1.00	3	2	23.5	90x130	LPS1V334MF130***
	390000	1.00	3	2	26.4	90x157	LPS1V394MF157***
	470000	1.00	3	2	29.6	90x157	LPS1V474MF157***
	680000	1.00	3	2	32.1	90x170	LPS1V684MF170***
	820000	1.00	3	2	35.2	90x196	LPS1V824MF196***

■ LPS series : 85℃ 2000 hours standard screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
50 1H (63)	5600	0.30	69	46	3.0	36x50	LPS1H562MA050***
	6800	0.30	57	38	3.3	36x50	LPS1H682MA050***
	8200	0.30	47	31	3.6	36x50	LPS1H822MA050***
	10000	0.30	39	26	4.0	36x70	LPS1H103MA070***
	12000	0.30	33	22	4.7	36x80	LPS1H123MA080***
	15000	0.30	23	15	5.5	36x80	LPS1H153MA080***
	18000	0.30	18	12	6.2	36x100	LPS1H183MA100***
	22000	0.40	17	11	6.3	36x120	LPS1H223MA120***
	27000	0.40	15	10	7.1	36x120	LPS1H273MA120***
	33000	0.40	14	9	7.8	51x100	LPS1H333MC100***
	39000	0.50	12	8	8.4	51x100	LPS1H393MC100***
	47000	0.50	12	8	9.3	51x100	LPS1H473MC100***
	56000	0.50	9	6	10.5	64x105	LPS1H563MD105***
	68000	0.50	8	5	12.0	64x105	LPS1H683MD105***
	82000	0.50	6	4	13.7	64x115	LPS1H823MD115***
	100000	0.60	6	4	14.7	77x115	LPS1H104ME115***
	120000	0.60	5	3	16.7	77x115	LPS1H124ME115***
	150000	0.60	5	3	19.3	77x130	LPS1H154ME130***
	180000	0.60	5	3	21.9	77x155	LPS1H184ME155***
	220000	0.60	3	2	21.4	90x130	LPS1H224MF130***
	270000	0.60	3	2	24.6	90x157	LPS1H274MF157***
	330000	0.60	3	2	26.6	90x170	LPS1H334MF170***
63 1J (79)	3900	0.30	71	47	2.7	36x50	LPS1J392MA050***
	4700	0.30	77	51	3.0	36x50	LPS1J472MA050***
	5600	0.30	57	38	3.3	36x50	LPS1J562MA050***
	6800	0.30	48	32	3.6	36x70	LPS1J682MA070***
	8200	0.30	39	26	4.3	36x80	LPS1J822MA080***
	10000	0.30	35	23	4.9	36x80	LPS1J103MA080***
	12000	0.30	27	18	5.6	36x100	LPS1J123MA100***
	15000	0.30	24	16	5.9	36x100	LPS1J153MA100***
	18000	0.30	23	15	6.7	36x120	LPS1J183MA120***
	22000	0.30	20	13	7.4	36x120	LPS1J223MA120***
	27000	0.40	18	12	7.8	51x100	LPS1J273MC100***
	33000	0.40	12	8	8.4	51x100	LPS1J333MC100***
	39000	0.40	11	7	9.5	51x100	LPS1J393MC100***
	47000	0.40	9	6	11.3	64x105	LPS1J473MD105***
	56000	0.40	9	6	12.7	64x115	LPS1J563MD115***
	68000	0.50	8	5	13.1	64x120	LPS1J683MD120***
	82000	0.50	6	4	14.5	64x130	LPS1J823MD130***
	100000	0.50	6	4	16.7	77x115	LPS1J104ME115***
	120000	0.50	5	3	18.9	77x130	LPS1J124ME130***
	150000	0.50	3	2	22.4	77x155	LPS1J154ME155***
	180000	0.60	3	2	24.4	90x130	LPS1J184MF130***
	220000	0.60	3	2	26.2	90x157	LPS1J224MF157***
	250000	0.60	3	2	28.9	90x170	LPS1J254MF170***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
80 1K (100)	3300	0.30	81	54	2.5	36x50	LPS1K332MA050***
	3900	0.30	69	46	2.8	36x50	LPS1K392MA050***
	4700	0.30	57	38	3.0	36x70	LPS1K472MA070***
	5600	0.30	48	32	3.6	36x80	LPS1K562MA080***
	6800	0.30	39	26	3.9	36x80	LPS1K682MA080***
	8200	0.30	33	22	4.5	36x80	LPS1K822MA080***
	10000	0.30	26	17	5.2	36x100	LPS1K103MA100***
	12000	0.30	23	15	5.9	36x100	LPS1K123MA100***
	15000	0.30	18	12	6.8	36x120	LPS1K153MA120***
	18000	0.30	15	10	7.8	36x120	LPS1K183MA120***
	22000	0.30	15	10	8.0	51x100	LPS1K223MC100***
	27000	0.30	12	8	9.2	51x100	LPS1K273MC100***
	33000	0.30	11	7	10.5	51x100	LPS1K333MC100***
	39000	0.30	9	6	12.0	64x105	LPS1K393MD105***
	47000	0.30	8	5	13.1	64x115	LPS1K473MD115***
	56000	0.40	6	4	13.9	64x130	LPS1K563MD130***
	68000	0.40	6	4	15.4	77x115	LPS1K683ME115***
	82000	0.40	6	4	17.5	77x130	LPS1K823ME130***
	100000	0.40	6	3	20.5	77x155	LPS1K104ME155***
	120000	0.40	5	2	22.4	90x130	LPS1K124MF130***
	150000	0.40	5	2	26.5	90x157	LPS1K154MF157***
	180000	0.40	5	2	28.8	90x170	LPS1K184MF170***
100 2A (125)	1800	0.25	72	48	1.9	36x50	LPS2A182MA050***
	2200	0.25	66	44	2.1	36x50	LPS2A222MA050***
	2700	0.25	59	39	2.3	36x50	LPS2A272MA050***
	3300	0.25	53	35	2.6	36x70	LPS2A332MA070***
	3900	0.25	42	28	3.0	36x80	LPS2A392MA080***
	4700	0.25	39	26	3.5	36x80	LPS2A472MA080***
	5600	0.25	35	23	3.9	36x100	LPS2A562MA100***
	6800	0.25	33	22	4.5	36x100	LPS2A682MA100***
	8200	0.25	30	20	5.1	36x120	LPS2A822MA120***
	10000	0.25	29	19	5.9	36x120	LPS2A103MA120***
	12000	0.25	24	16	6.4	51x80	LPS2A123MC080***
	15000	0.25	18	12	7.0	51x100	LPS2A153MC100***
	18000	0.25	15	10	8.3	51x100	LPS2A183MC100***
	22000	0.25	12	8	10.0	64x105	LPS2A223MD105***
	27000	0.25	11	7	11.5	64x115	LPS2A273MD115***
	33000	0.25	11	6	11.9	64x130	LPS2A333MD130***
	39000	0.25	10	5	13.4	77x115	LPS2A393ME115***
	47000	0.35	10	5	14.2	77x130	LPS2A473ME130***
	56000	0.35	8	4	16.0	77x155	LPS2A563ME155***
	68000	0.35	6	3	18.8	90x130	LPS2A683MF130***
	82000	0.35	6	3	20.5	90x157	LPS2A823MF157***
	100000	0.35	6	3	23.6	90x170	LPS2A104MF170***
	120000	0.35	6	3	25.8	90x196	LPS2A124MF196***

■ LPS series : 85℃ 2000 hours standard screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
160 2C (200)	3300	0.25	47	31	5.2	36x120	LPS2C332MA120***
	4700	0.25	32	21	5.9	51x80	LPS2C472MC080***
	5600	0.25	29	19	7.0	51x100	LPS2C562MC100***
	6800	0.25	24	16	7.8	51x100	LPS2C682MC100***
	10000	0.25	20	13	10.4	64x105	LPS2C103MD105***
	12000	0.25	15	10	11.3	64x105	LPS2C123MD105***
	15000	0.25	14	9	14.3	64x130	LPS2C153MD130***
		0.25	12	8	14.3	77x105	LPS2C153ME105***
	18000	0.25	12	8	15.6	64x130	LPS2C183MD130***
		0.25	12	8	15.6	77x115	LPS2C183ME115***
	22000	0.25	9	6	18.3	77x130	LPS2C223ME130***
		0.25	9	6	18.3	90x105	LPS2C223MF105***
	25000	0.25	9	6	19.6	77x130	LPS2C253ME130***
		0.25	9	6	19.6	90x105	LPS2C253MF105***
	27000	0.25	9	6	21.5	77x155	LPS2C273ME155***
		0.25	9	6	21.5	90x130	LPS2C273MF130***
	33000	0.25	8	5	23.8	90x130	LPS2C333MF130***
		0.25	8	5	23.8	90x157	LPS2C333MF157***
	39000	0.25	6	4	27.9	90x157	LPS2C393MF157***
		0.25	6	4	27.9	101x155	LPS2C333MG155***
	47000	0.25	5	3	31.1	90x170	LPS2C473MF170***
		0.25	5	3	31.1	101x155	LPS2C473MG155***
	56000	0.25	5	3	33.6	90x196	LPS2C563MF196***
	68000	0.25	5	3	36.5	90x220	LPS2C683MF220***
	82000	0.25	5	3	39.1	90x250	LPS2C823MF250***
	100000	0.25	5	3	42.3	101x250	LPS2C104MG250***
200 2D (250)	2200	0.25	57	38	3.9	36x100	LPS2D222MA100***
	3300	0.25	36	24	4.9	51x80	LPS2D332MC080***
	4700	0.25	30	20	6.4	51x100	LPS2D472MC100***
	5600	0.25	27	18	7.6	51x100	LPS2D562MC100***
	6800	0.25	21	14	8.8	51x130	LPS2D682MC130***
	8200	0.25	17	11	9.4	64x105	LPS2D822MD105***
	10000	0.25	14	9	10.4	64x105	LPS2D103MD105***
		0.25	14	9	10.4	77x96	LPS2D822ME096***
	15000	0.25	11	7	14.4	77x105	LPS2D153ME105***
		0.25	11	7	14.4	77x115	LPS2D153ME115***
	18000	0.25	9	6	16.5	77x130	LPS2D183ME130***
		0.25	9	6	16.5	77x155	LPS2D183ME155***
	22000	0.25	8	5	19.6	77x155	LPS2D223ME155***
		0.25	8	5	19.6	90x130	LPS2D223MF130***
	33000	0.25	6	4	25.3	77x220	LPS2D333ME220***
		0.25	6	4	25.3	90x157	LPS2D333MF157***
	47000	0.25	5	3	27.6	90x250	LPS2D473MF250***
		0.25	5	3	27.6	101x190	LPS2D473MG190***
	56000	0.25	5	3	29.8	101x250	LPS2D563MG250***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	3300	0.25	35	23	5.4	51x100	LPS2E332MC100***
	4700	0.25	26	17	7.1	64x105	LPS2E472MD105***
	6800	0.25	18	12	9.1	64x115	LPS2E682MD115***
		0.25	18	12	9.1	77x96	LPS2E682ME096***
	8200	0.25	17	11	10.1	64x115	LPS2E822MD115***
		0.25	17	11	10.1	77x105	LPS2E822ME105***
	10000	0.25	14	9	11.7	64x120	LPS2E103MD120***
		0.25	14	9	11.7	77x105	LPS2E103ME105***
	15000	0.25	11	7	15.1	77x130	LPS2E153ME130***
		0.25	11	7	15.1	77x155	LPS2E153ME155***
	18000	0.25	9	6	17.7	77x155	LPS2E183ME155***
		0.25	9	6	17.7	90x130	LPS2E183MF130***
	22000	0.25	7	5	20.9	77x170	LPS2E223ME170***
		0.25	7	5	20.9	90x157	LPS2E223MF157***
	25000	0.25	7	5	21.5	77x190	LPS2E253ME190***
		0.25	7	5	21.5	90x157	LPS2E253MF157***
	27000	0.25	7	5	22.7	77x236	LPS2E273ME236***
		0.25	7	5	22.7	90x157	LPS2E273MF157***
	33000	0.25	6	4	23.9	77x250	LPS2E333ME250***
		0.25	6	4	23.9	90x170	LPS2E333MF170***
	39000	0.25	6	4	25.9	90x196	LPS2E393MF196***
		0.25	6	4	25.9	101x155	LPS2E393MG155***
	47000	0.25	5	3	27.8	90x250	LPS2E473MF250***
		0.25	5	3	27.8	101x190	LPS2E473MG190***
	56000	0.25	5	3	29.6	101x250	LPS2E563MG250***
350 2V (400)	1000	0.20	156	104	3.4	36x100	LPS2V102MA100***
	1500	0.20	108	72	4.3	51x80	LPS2V152MC080***
	1800	0.20	87	58	5.1	51x100	LPS2V182MC100***
	2200	0.20	72	48	5.7	51x100	LPS2V222MC100***
	2700	0.20	59	39	7.1	64x105	LPS2V272MD105***
	3300	0.20	48	32	7.9	64x105	LPS2V332MD105***
	3900	0.20	42	28	9.0	64x115	LPS2V392MD115***
	4700	0.20	38	25	10.3	64x130	LPS2V472MD130***
	5600	0.20	33	22	11.4	77x115	LPS2V562ME115***
	6800	0.20	26	17	13.1	77x130	LPS2V682ME130***
	8200	0.20	21	14	15.4	77x155	LPS2V822ME155***
	10000	0.20	18	12	18.1	90x157	LPS2V103MF157***
	12000	0.20	15	10	20.0	90x157	LPS2V123MF157***
	15000	0.20	12	8	24.5	90x196	LPS2V153MF196***
		0.20	12	8	24.5	101x155	LPS2V153MG155***
	18000	0.20	11	7	28.8	90x170	LPS2V183MF170***
	22000	0.20	9	6	31.6	90x196	LPS2V223MF196***
	25000	0.20	9	6	33.1	90x220	LPS2V253MF220***
	27000	0.20	8	5	35.9	90x236	LPS2V273MF236***
	33000	0.20	8	5	37.7	101x250	LPS2V333MG250***

■ LPS series : 85℃ 2000 hours standard screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	1000	0.20	123	82	3.5	51x80	LPS2G102MC080***
	1200	0.20	102	68	3.8	51x80	LPS2G122MC080***
	1500	0.20	87	58	4.7	51x80	LPS2G152MC080***
	1800	0.20	71	47	5.2	51x100	LPS2G182MC100***
	2200	0.20	60	40	6.4	51x100	LPS2G222MC100***
	2500	0.20	54	36	6.7	51x100	LPS2G252MC100***
		0.20	54	36	6.7	64x105	LPS2G252MD105***
	2700	0.20	50	33	7.1	51x100	LPS2G272MC100***
		0.20	50	33	7.1	64x105	LPS2G272MD105***
	3300	0.20	47	31	8.2	64x105	LPS2G332MD105***
		0.20	47	31	8.2	64x115	LPS2G332MD115***
	3900	0.20	38	25	9.4	64x115	LPS2G392MD115***
		0.20	38	25	9.4	77x96	LPS2G392ME096***
	4700	0.20	36	24	10.5	64x120	LPS2G472MD120***
		0.20	36	24	10.5	64x135	LPS2G472MD135***
		0.20	36	24	10.5	77x115	LPS2G472ME115***
	5600	0.20	29	19	12.0	64x130	LPS2G562MD130***
		0.20	29	19	12.0	77x115	LPS2G562ME115***
		0.20	29	19	12.0	77x130	LPS2G562ME130***
	6800	0.20	24	16	14.1	77x130	LPS2G682ME130***
		0.20	24	16	14.1	77x143	LPS2G682ME143***
		0.20	24	16	14.1	77x155	LPS2G682ME155***
	7400	0.20	23	15	15.5	77x130	LPS2G742ME130***
		0.20	23	15	15.5	77x155	LPS2G742ME155***
	8200	0.20	21	14	16.5	77x145	LPS2G822ME145***
		0.20	21	14	16.5	77x155	LPS2G822ME155***
		0.20	21	14	16.5	90x130	LPS2G822MF130***
		0.20	21	14	16.5	90x157	LPS2G822MF157***
	10000	0.20	17	11	18.3	77x155	LPS2G103ME155***
		0.20	17	11	18.3	77x178	LPS2G103ME178***
		0.20	17	11	18.3	90x130	LPS2G103MF130***
		0.20	17	11	18.3	90x157	LPS2G103MF157***
	12000	0.20	15	10	21.8	77x178	LPS2G123ME178***
		0.20	15	10	21.8	90x157	LPS2G123MF157***
		0.20	15	10	21.8	90x170	LPS2G123MF170***
		0.20	15	10	21.8	90x196	LPS2G123MF196***
	15000	0.20	14	9	26.4	77x220	LPS2G153ME220***
		0.20	14	9	26.4	90x170	LPS2G153MF170***
		0.20	14	9	26.4	90x196	LPS2G153MF196***
	18000	0.20	12	8	28.6	77x250	LPS2G183ME250***
		0.20	12	8	28.6	90x196	LPS2G183MF196***
	22000	0.20	11	7	30.3	90x236	LPS2G223MF236***
		0.20	11	7	30.3	101x190	LPS2G223MG190***
	25000	0.20	9	6	32.8	90x250	LPS2G253MF250***
		0.20	9	6	32.8	101x236	LPS2G253MG236***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	470	0.20	300	200	2.2	36x80	LPS2W471MA080***
	680	0.20	210	140	2.8	36x100	LPS2W681MA100***
	820	0.20	144	96	3.2	51x80	LPS2W821MC080***
	1000	0.20	123	82	3.5	51x80	LPS2W102MC080***
	1200	0.20	108	72	4.2	51x100	LPS2W122MC100***
	1500	0.20	87	58	5.1	51x100	LPS2W152MC100***
	1800	0.20	69	46	5.9	51x100	LPS2W182MC100***
		0.20	69	46	5.9	64x105	LPS2W182MD105***
	2200	0.20	55	39	6.3	64x105	LPS2W222MD105***
		0.20	55	39	6.3	77x96	LPS2W222ME096***
	2500	0.20	53	35	6.9	64x105	LPS2W252MD105***
		0.20	53	35	6.9	77x96	LPS2W252ME096***
	2700	0.20	50	33	7.3	64x105	LPS2W272MD105***
		0.20	50	33	7.3	77x96	LPS2W272ME096***
	2900	0.20	47	31	7.8	64x130	LPS2W292MD130***
		0.20	47	31	7.8	77x105	LPS2W292ME105***
	3300	0.20	45	30	8.7	64x115	LPS2W332MD115***
		0.20	45	30	8.7	77x105	LPS2W332ME105***
	3900	0.20	44	29	9.5	64x120	LPS2W392MD120***
		0.20	44	29	9.5	77x115	LPS2W392ME115***
		0.20	44	29	9.5	77x145	LPS2W392ME145***
	4700	0.20	36	24	11.2	77x115	LPS2W472ME115***
		0.20	36	24	11.2	77x130	LPS2W472ME130***
		0.20	36	24	11.2	77x145	LPS2W472ME145***
	5600	0.20	24	16	12.8	77x115	LPS2W562ME115***
		0.20	24	16	12.8	77x145	LPS2W562ME145***
		0.20	24	16	12.8	77x155	LPS2W562ME155***
	6800	0.20	21	14	15.1	77x155	LPS2W682ME155***
		0.20	21	14	15.1	90x157	LPS2W562MF157***
	7500	0.20	20	13	15.8	77x145	LPS2W752ME145***
		0.20	20	13	15.8	77x155	LPS2W752ME155***
	8200	0.20	18	12	16.5	77x155	LPS2W822ME155***
		0.20	18	12	16.5	90x157	LPS2W562MF157***
	10000	0.20	15	10	20.2	77x190	LPS2W103ME190***
		0.20	15	10	20.2	90x157	LPS2W103MF157***
		0.20	15	10	20.2	90x196	LPS2W103MF196***
	12000	0.20	12	8	23.6	90x196	LPS2W123MF196***
		0.20	12	8	23.6	90x236	LPS2W123MF236***
	15000	0.20	12	8	25.1	90x250	LPS2W153MF250***
		0.20	12	8	25.1	101x190	LPS2W153MG190***
	18000	0.20	12	8	27.3	90x250	LPS2W183MF250***
		0.20	12	8	27.3	101x190	LPS2W183MG190***
	20000	0.20	12	8	28.5	90x220	LPS2W203MF220***
		0.20	12	8	28.5	101x190	LPS2W203MG190***
	22000	0.20	12	8	30.8	101x250	LPS2W223MG250***

■ LPS series : 85℃ 2000 hours standard screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	1000	0.20	128	85	4.6	51x80	LPS2H102MC080***
		0.20	128	85	4.6	51x100	LPS2H102MC100***
	1200	0.20	105	70	5.2	51x100	LPS2H122MC100***
		0.20	105	70	5.2	64x96	LPS2H122MD096***
	1500	0.20	90	60	5.7	51x100	LPS2H152MC100***
		0.20	90	60	5.7	64x96	LPS2H152MD096***
	1800	0.20	75	50	6.4	64x105	LPS2H182MD105***
		0.20	75	50	6.4	77x105	LPS2H182ME105***
	2200	0.20	62	41	6.9	64x130	LPS2H222MD130***
		0.20	62	41	6.9	77x105	LPS2H222ME105***
	2500	0.20	59	39	7.5	64x130	LPS2H252MD130***
		0.20	59	39	7.5	77x115	LPS2H222ME115***
	2700	0.20	54	36	8.1	64x130	LPS2H272MD130***
		0.20	54	36	8.1	77x115	LPS2H222ME115***
	3300	0.20	48	32	9.6	64x130	LPS2H332MD130***
		0.20	48	32	9.6	77x130	LPS2H332ME130***
	3900	0.20	45	30	10.8	64x130	LPS2H392MD130***
		0.20	45	30	10.8	77x130	LPS2H392ME130***
	4700	0.20	41	27	12.1	77x130	LPS2H472ME130***
		0.20	41	27	12.1	77x145	LPS2H472ME145***
	5600	0.20	32	21	13.8	77x155	LPS2H562ME155***
		0.20	32	21	13.8	90x157	LPS2H472MF157***
	6800	0.20	27	18	15.8	77x155	LPS2H682ME155***
		0.20	27	18	15.8	77x190	LPS2H682ME190***
		0.20	27	18	15.8	90x157	LPS2H682MF157***
		0.20	27	18	15.8	90x170	LPS2H682MF170***
	8200	0.20	21	14	17.2	77x170	LPS2H822ME170***
		0.20	21	14	17.2	90x196	LPS2H822MF196***
	10000	0.20	18	12	22.1	90x170	LPS2H103MF170***
		0.20	18	12	22.1	90x236	LPS2H103MF236***
		0.20	18	12	22.1	101x155	LPS2H103MG155***
	12000	0.20	15	10	25.8	90x220	LPS2H123MF220***
		0.20	15	10	25.8	90x236	LPS2H123MF236***
		0.20	15	10	25.8	101x190	LPS2H123MG190***
	15000	0.20	12	8	28.3	90x250	LPS2H153MF250***
		0.20	12	8	28.3	101x236	LPS2H153MG236***
	18000	0.20	11	7	31.6	101x250	LPS2H183MG250***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
550 2Y (600)	680	0.20	279	186	2.8	51x80	LPS2Y681MC080***
	820	0.20	173	115	3.8	51x80	LPS2Y821MC080***
		0.20	173	115	3.8	51x100	LPS2Y821MC100***
	1000	0.20	128	85	4.6	51x100	LPS2Y102MC100***
		0.20	128	85	4.6	64x96	LPS2Y102MD096***
	1200	0.20	105	70	5.2	51x100	LPS2Y122MC100***
		0.20	105	70	5.2	64x96	LPS2Y122MD096***
	1500	0.20	90	60	5.7	64x96	LPS2Y152MD096***
		0.20	90	60	5.7	77x105	LPS2Y152ME105***
	1800	0.20	75	50	6.4	64x105	LPS2Y182MD105***
		0.20	75	50	6.4	77x105	LPS2Y182ME105***
	2200	0.20	62	41	6.9	64x130	LPS2Y222MD130***
		0.20	62	41	6.9	77x105	LPS2Y222ME105***
	2500	0.20	59	39	7.5	64x130	LPS2Y252MD130***
		0.20	59	39	7.5	77x115	LPS2Y222ME115***
	2700	0.20	54	36	8.1	64x130	LPS2Y272MD130***
		0.20	54	36	8.1	77x115	LPS2Y222ME115***
	3300	0.20	48	32	9.6	77x115	LPS2Y332ME115***
		0.20	48	32	9.6	77x130	LPS2Y332ME130***
	3900	0.20	45	30	10.8	77x130	LPS2Y392ME130***
		0.20	45	30	10.8	77x145	LPS2Y392ME145***
	4700	0.20	41	27	12.1	77x145	LPS2Y472ME145***
		0.20	41	27	12.1	77x155	LPS2Y472ME155***
	5600	0.20	32	21	13.8	77x170	LPS2Y562ME170***
		0.20	32	21	13.8	90x157	LPS2Y472MF157***
	6800	0.20	27	18	15.8	77x190	LPS2Y682ME190***
		0.20	27	18	15.8	77x196	LPS2Y682ME196***
		0.20	27	18	15.8	90x157	LPS2Y682MF157***
		0.20	27	18	15.8	90x170	LPS2Y682MF170***
	8200	0.20	21	14	17.2	77x220	LPS2Y822ME220***
		0.20	21	14	17.2	90x196	LPS2Y822MF196***
	10000	0.20	18	12	22.1	90x220	LPS2Y103MF220***
		0.20	18	12	22.1	90x236	LPS2Y103MF236***
		0.20	18	12	22.1	101x170	LPS2Y103MG170***
	12000	0.20	12	8	25.8	90x250	LPS2Y123MF250***
		0.20	12	8	25.8	101x190	LPS2Y123MG190***
	15000	0.20	11	7	28.3	101x250	LPS2Y153MG250***

■ LPS series : 85℃ 2000 hours standard screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
600 2S (600)	680	0.20	375	250	3.1	51x100	LPS2S681MC100***
	820	0.20	195	130	3.8	51x100	LPS2S821MC100***
		0.20	195	130	3.8	64x96	LPS2S821MD096***
	1000	0.20	128	85	4.6	64x96	LPS2S102MD096***
		0.20	128	85	4.6	64x115	LPS2S102MD115***
	1200	0.20	105	70	5.2	64x115	LPS2S122MD115***
		0.20	105	70	5.2	77x105	LPS2S122ME105***
	1500	0.20	90	60	5.7	64x130	LPS2S152MD130***
		0.20	90	60	5.7	77x105	LPS2S152ME105***
	1800	0.20	75	50	6.4	64x130	LPS2S182MD130***
		0.20	75	50	6.4	77x115	LPS2S182ME115***
	2200	0.20	62	41	6.9	64x130	LPS2S222MD130***
		0.20	62	41	6.9	77x115	LPS2S222ME115***
	2500	0.20	59	39	7.5	77x130	LPS2S252ME130***
		0.20	59	39	7.5	77x145	LPS2S252ME145***
	2700	0.20	54	36	8.1	77x145	LPS2S272ME145***
		0.20	54	36	8.1	77x155	LPS2S272ME155***
	3300	0.20	48	32	9.6	77x155	LPS2S332ME155***
		0.20	48	32	9.6	77x170	LPS2S332ME170***
	3900	0.20	45	30	10.8	77x170	LPS2S392ME170***
		0.20	45	30	10.8	90x145	LPS2S392MF145***
	4700	0.20	41	27	12.1	77x196	LPS2S472ME196***
		0.20	41	27	12.1	90x157	LPS2S472MF157***
	5600	0.20	32	21	13.8	77x220	LPS2S562ME220***
		0.20	32	21	13.8	90x170	LPS2S562MF170***
	6800	0.20	27	18	15.8	77x250	LPS2S682ME250***
		0.20	27	18	15.8	90x196	LPS2S682MF196***
		0.20	27	18	15.8	101x155	LPS2S682MG155***
	8200	0.20	21	14	17.2	90x236	LPS2S822MF236***
		0.20	21	14	17.2	101x190	LPS2S822MG190***
	10000	0.20	18	12	22.1	90x250	LPS2S103MF250***
		0.20	18	12	22.1	101x236	LPS2S103MG236***
	12000	0.20	15	10	25.8	101x250	LPS2S123MG250***

*** Indicates mounting method, terminal diameter, internal teeth.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LPA series 85℃ 3000 hours

LGS ↑105℃ longer life LGA ↑105℃ longer life LGB

LPS longer life **LPA** higer current LWA



- Rohs requirements
- 85℃ 3000 hours series
- Used for switching power supply, servo, frequency converter, air conditioning, filter circuit,laser spot welding machine, consumer electronics,printed circuit board and other general industrial products

■ Product description

Item	Characteristic							
Operating temperature range	-40℃ ~ +85℃				-25℃ ~ +85℃			
Rated voltage(WV/V)	10V ~ 450V				460V ~ 550V			
Capacitance(CAP/C)	470 ~ 1800000μF							
Tolerance(CAP/C)	±20% (25℃, 120Hz)							
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)							
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	10 ~ 16	25 ~ 35	50	63	80 ~ 100	160 ~ 250	350 ~ 600
	DF	See exact specifications					0.25	0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6							
	C(-25℃/C(+25℃)≥0.7							

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	5000h	>80000h	3000h	3000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

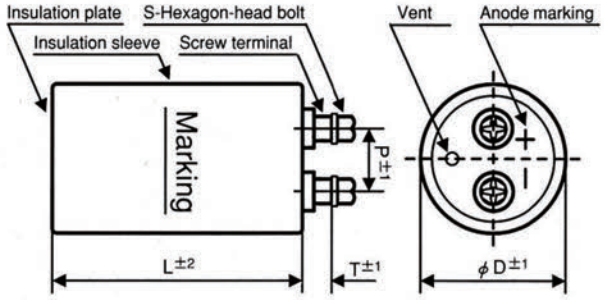
■ Ripple current correction factor

Temp.℃	40	60	70	85
Coefficient	2.7	2.0	1.7	1.0

Freq. / UR(V)	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
≤100	0.95	1.00	1.04	1.10	1.15
160-250	0.90	1.00	1.08	1.16	1.30
≥315	0.80	1.00	1.10	1.25	1.50

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

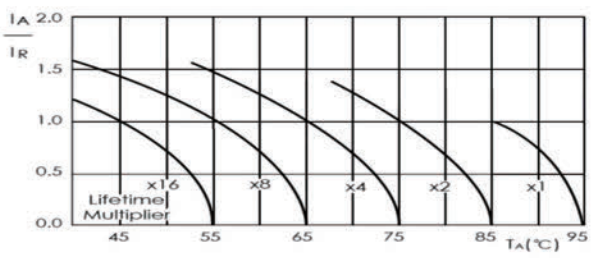
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz

IR:Rated ripple current 120Hz 85°C

TA:Environment temp

■ LPA series : 85℃ 3000 hours standard screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
10 1A (13)	33000	0.80	33	22	4.5	36x50	LPA1A333MA050***
	39000	0.80	29	19	4.8	36x50	LPA1A393MA050***
	47000	0.80	23	15	5.2	36x70	LPA1A473MA070***
	56000	0.80	20	13	6.1	36x80	LPA1A563MA080***
	68000	0.80	15	10	6.8	36x80	LPA1A683MA080***
	82000	0.80	14	9	7.8	36x100	LPA1A823MA100***
	100000	0.80	12	8	8.8	36x100	LPA1A104MA100***
	120000	0.80	11	7	10.0	36x120	LPA1A124MA120***
	150000	1.00	11	7	10.8	36x120	LPA1A154MA120***
	180000	1.00	9	6	11.2	51x100	LPA1A184MC100***
	220000	1.50	8	5	12.1	51x100	LPA1A224MC100***
	270000	1.50	6	4	12.8	64x96	LPA1A274MD096***
	330000	1.50	6	4	15.3	64x105	LPA1A334MD105***
	390000	1.50	5	3	16.8	64x115	LPA1A394MD115***
	470000	2.00	5	3	17.3	64x130	LPA1A474MD130***
	560000	2.00	5	3	19.0	77x115	LPA1A564ME115***
	680000	2.00	5	3	21.8	77x130	LPA1A684ME130***
	820000	2.00	3	2	24.8	77x155	LPA1A824ME155***
	1000000	2.50	3	2	26.8	77x170	LPA1A105ME170***
	1200000	2.50	3	2	28.8	90x157	LPA1A125MF157***
	1500000	2.50	3	2	31.8	90x170	LPA1A155MF170***
16 1C (20)	22000	0.60	33	22	4.1	36x50	LPA1C223MA050***
	27000	0.60	29	19	4.5	36x50	LPA1C273MA050***
	33000	0.60	24	16	5.0	36x50	LPA1C333MA050***
	39000	0.60	20	13	5.9	36x70	LPA1C393MA070***
	47000	0.60	17	11	6.4	36x80	LPA1C473MA080***
	56000	0.60	15	10	7.3	36x80	LPA1C563MA080***
	68000	0.60	12	8	8.4	36x100	LPA1C683MA100***
	82000	0.80	11	7	8.3	36x100	LPA1C823MA100***
	100000	0.80	9	6	9.5	36x120	LPA1C104MA120***
	120000	0.80	8	5	10.9	36x120	LPA1C124MA120***
	150000	1.00	6	4	11.3	51x100	LPA1C154MC100***
	180000	1.00	5	3	12.8	51x100	LPA1C184MC100***
	220000	1.00	5	3	15.3	64x105	LPA1C224MD105***
	270000	1.00	5	3	16.8	64x105	LPA1C274MD105***
	330000	1.50	5	3	17.6	64x115	LPA1C334MD115***
	390000	1.50	5	3	18.3	64x130	LPA1C394MD130***
	470000	1.50	3	2	21.3	77x115	LPA1C474ME115***
	560000	1.50	3	2	23.6	77x130	LPA1C564ME130***
	680000	1.50	3	2	25.6	77x155	LPA1C684ME155***
	820000	2.00	3	2	28.1	90x157	LPA1C824MF157***
	1000000	2.50	3	2	31.1	90x157	LPA1C105MF157***
	1200000	2.50	3	2	33.2	90x157	LPA1C125MF157***
	1500000	2.50	3	2	35.9	90x170	LPA1C155MF170***
	1800000	2.50	3	2	38.1	90x196	LPA1C185MF196***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
25 1E (32)	15000	0.50	33	22	3.7	36x50	LPA1E153MA050***
	18000	0.50	27	18	4.1	36x50	LPA1E183MA050***
	22000	0.50	24	16	4.5	36x50	LPA1E223MA050***
	27000	0.50	20	13	5.0	36x70	LPA1E273MA070***
	33000	0.50	17	11	5.9	36x80	LPA1E333MA080***
	39000	0.50	14	9	6.7	36x80	LPA1E393MA080***
	47000	0.50	12	8	7.7	36x100	LPA1E473MA100***
	56000	0.60	11	7	7.9	36x100	LPA1E563MA100***
	68000	0.60	9	6	9.1	36x120	LPA1E683MA120***
	82000	0.60	8	5	10.4	36x120	LPA1E823MA120***
	100000	0.80	6	4	10.3	51x100	LPA1E104MC100***
	120000	0.80	6	4	11.7	51x100	LPA1E124MC100***
	150000	0.80	5	3	14.1	64x105	LPA1E154MD105***
	180000	0.80	5	3	15.7	64x105	LPA1E184MD105***
	220000	1.00	5	3	16.1	64x115	LPA1E224MD115***
	270000	1.00	5	3	18.6	64x130	LPA1E274MD130***
	330000	1.00	3	2	21.9	77x105	LPA1E334ME105***
	390000	1.20	3	2	22.0	77x115	LPA1E394ME115***
	470000	1.20	3	2	25.6	77x155	LPA1E474ME155***
	560000	1.20	3	2	27.9	90x130	LPA1E564MF130***
	680000	1.20	3	2	32.5	90x157	LPA1E684MF157***
	820000	1.20	3	2	35.2	90x170	LPA1E824MF170***
35 1V (44)	10000	0.40	36	24	3.4	36x50	LPA1V103MA050***
	12000	0.40	30	20	3.7	36x50	LPA1V123MA050***
	15000	0.40	26	17	4.2	36x70	LPA1V153MA070***
	18000	0.40	21	14	4.9	36x80	LPA1V183MA080***
	22000	0.40	18	12	5.7	36x80	LPA1V223MA080***
	27000	0.40	14	9	6.3	36x100	LPA1V273MA100***
	33000	0.40	14	9	7.2	36x100	LPA1V333MA100***
	39000	0.50	12	8	7.3	36x120	LPA1V393MA120***
	47000	0.50	12	8	8.7	51x100	LPA1V473MC100***
	56000	0.60	12	8	8.6	51x100	LPA1V563MC100***
	68000	0.60	9	6	9.8	51x100	LPA1V683MC100***
	82000	0.60	8	5	11.6	64x105	LPA1V823MD105***
	100000	0.60	6	4	13.3	64x115	LPA1V104MD115***
	120000	0.60	6	4	14.8	64x120	LPA1V124MD120***
	150000	0.80	6	4	14.9	64x130	LPA1V154MD130***
	180000	0.80	5	3	17.0	77x115	LPA1V184ME115***
	220000	0.80	5	3	19.1	77x130	LPA1V224ME130***
	270000	1.00	5	3	20.3	77x155	LPA1V274ME155***
	330000	1.00	3	2	23.5	90x130	LPA1V334MF130***
	390000	1.00	3	2	26.4	90x157	LPA1V394MF157***
	470000	1.00	3	2	29.6	90x157	LPA1V474MF157***
	680000	1.00	3	2	32.1	90x170	LPA1V684MF170***
	820000	1.00	3	2	35.2	90x196	LPA1V824MF196***

■ LPA series : 85℃ 3000 hours standard screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
50 1H (63)	5600	0.30	69	46	3.0	36x50	LPA1H562MA050***
	6800	0.30	57	38	3.3	36x50	LPA1H682MA050***
	8200	0.30	47	31	3.6	36x50	LPA1H822MA050***
	10000	0.30	39	26	4.0	36x70	LPA1H103MA070***
	12000	0.30	33	22	4.7	36x80	LPA1H123MA080***
	15000	0.30	23	15	5.5	36x80	LPA1H153MA080***
	18000	0.30	18	12	6.2	36x100	LPA1H183MA100***
	22000	0.40	17	11	6.3	36x120	LPA1H223MA120***
	27000	0.40	15	10	7.1	36x120	LPA1H273MA120***
	33000	0.40	14	9	7.8	51x100	LPA1H333MC100***
	39000	0.50	12	8	8.4	51x100	LPA1H393MC100***
	47000	0.50	12	8	9.3	51x100	LPA1H473MC100***
	56000	0.50	9	6	10.5	64x105	LPA1H563MD105***
	68000	0.50	8	5	12.0	64x105	LPA1H683MD105***
	82000	0.50	6	4	13.7	64x115	LPA1H823MD115***
	100000	0.60	6	4	14.7	77x115	LPA1H104ME115***
	120000	0.60	5	3	16.7	77x115	LPA1H124ME115***
	150000	0.60	5	3	19.3	77x130	LPA1H154ME130***
	180000	0.60	5	3	21.9	77x155	LPA1H184ME155***
	220000	0.60	3	2	21.4	90x130	LPA1H224MF130***
	270000	0.60	3	2	24.6	90x157	LPA1H274MF157***
	330000	0.60	3	2	26.6	90x170	LPA1H334MF170***
63 1J (79)	3900	0.30	71	47	2.7	36x50	LPA1J392MA050***
	4700	0.30	77	51	3.0	36x50	LPA1J472MA050***
	5600	0.30	57	38	3.3	36x50	LPA1J562MA050***
	6800	0.30	48	32	3.6	36x70	LPA1J682MA070***
	8200	0.30	39	26	4.3	36x80	LPA1J822MA080***
	10000	0.30	35	23	4.9	36x80	LPA1J103MA080***
	12000	0.30	27	18	5.6	36x100	LPA1J123MA100***
	15000	0.30	24	16	5.9	36x100	LPA1J153MA100***
	18000	0.30	23	15	6.7	36x120	LPA1J183MA120***
	22000	0.30	20	13	7.4	36x120	LPA1J223MA120***
	27000	0.40	18	12	7.8	51x100	LPA1J273MC100***
	33000	0.40	12	8	8.4	51x100	LPA1J333MC100***
	39000	0.40	11	7	9.5	51x100	LPA1J393MC100***
	47000	0.40	9	6	11.3	64x105	LPA1J473MD105***
	56000	0.40	9	6	12.7	64x115	LPA1J563MD115***
	68000	0.50	8	5	13.1	64x120	LPA1J683MD120***
	82000	0.50	6	4	14.5	64x130	LPA1J823MD130***
	100000	0.50	6	4	16.7	77x115	LPA1J104ME115***
	120000	0.50	5	3	18.9	77x130	LPA1J124ME130***
	150000	0.50	3	2	22.4	77x155	LPA1J154ME155***
	180000	0.60	3	2	24.4	90x130	LPA1J184MF130***
	220000	0.60	3	2	26.2	90x157	LPA1J224MF157***
	250000	0.60	3	2	28.9	90x170	LPA1J254MF170***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
80 1K (100)	3300	0.30	81	54	2.5	36x50	LPA1K332MA050***
	3900	0.30	69	46	2.8	36x50	LPA1K392MA050***
	4700	0.30	57	38	3.0	36x70	LPA1K472MA070***
	5600	0.30	48	32	3.6	36x80	LPA1K562MA080***
	6800	0.30	39	26	3.9	36x80	LPA1K682MA080***
	8200	0.30	33	22	4.5	36x80	LPA1K822MA080***
	10000	0.30	26	17	5.2	36x100	LPA1K103MA100***
	12000	0.30	23	15	5.9	36x100	LPA1K123MA100***
	15000	0.30	18	12	6.8	36x120	LPA1K153MA120***
	18000	0.30	15	10	7.8	36x120	LPA1K183MA120***
	22000	0.30	15	10	8.0	51x100	LPA1K223MC100***
	27000	0.30	12	8	9.2	51x100	LPA1K273MC100***
	33000	0.30	11	7	10.5	51x100	LPA1K333MC100***
	39000	0.30	9	6	12.0	64x105	LPA1K393MD105***
	47000	0.30	8	5	13.1	64x115	LPA1K473MD115***
	56000	0.40	6	4	13.9	64x130	LPA1K563MD130***
	68000	0.40	6	4	15.4	77x115	LPA1K683ME115***
	82000	0.40	6	4	17.5	77x130	LPA1K823ME130***
	100000	0.40	6	3	20.5	77x155	LPA1K104ME155***
	120000	0.40	5	2	22.4	90x130	LPA1K124MF130***
	150000	0.40	5	2	26.5	90x157	LPA1K154MF157***
	180000	0.40	5	2	28.8	90x170	LPA1K184MF170***
100 2A (125)	1800	0.25	72	48	1.9	36x50	LPA2A182MA050***
	2200	0.25	66	44	2.1	36x50	LPA2A222MA050***
	2700	0.25	59	39	2.3	36x50	LPA2A272MA050***
	3300	0.25	53	35	2.6	36x70	LPA2A332MA070***
	3900	0.25	42	28	3.0	36x80	LPA2A392MA080***
	4700	0.25	39	26	3.5	36x80	LPA2A472MA080***
	5600	0.25	35	23	3.9	36x100	LPA2A562MA100***
	6800	0.25	33	22	4.5	36x100	LPA2A682MA100***
	8200	0.25	30	20	5.1	36x120	LPA2A822MA120***
	10000	0.25	29	19	5.9	36x120	LPA2A103MA120***
	12000	0.25	24	16	6.4	51x80	LPA2A123MC080***
	15000	0.25	18	12	7.0	51x100	LPA2A153MC100***
	18000	0.25	15	10	8.3	51x100	LPA2A183MC100***
	22000	0.25	12	8	10.0	64x105	LPA2A223MD105***
	27000	0.25	11	7	11.5	64x115	LPA2A273MD115***
	33000	0.25	11	6	11.9	64x130	LPA2A333MD130***
	39000	0.25	10	5	13.4	77x115	LPA2A393ME115***
	47000	0.35	10	5	14.2	77x130	LPA2A473ME130***
	56000	0.35	8	4	16.0	77x155	LPA2A563ME155***
	68000	0.35	6	3	18.8	90x130	LPA2A683MF130***
	82000	0.35	6	3	20.5	90x157	LPA2A823MF157***
	100000	0.35	6	3	23.6	90x170	LPA2A104MF170***
	120000	0.35	6	3	25.8	90x196	LPA2A124MF196***

■ LPA series : 85℃ 3000 hours standard screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
160 2C (200)	3300	0.25	47	31	5.2	36x120	LPA2C332MA120***
	4700	0.25	32	21	5.9	51x80	LPA2C472MC080***
	5600	0.25	29	19	7.0	51x100	LPA2C562MC100***
	6800	0.25	24	16	7.8	51x100	LPA2C682MC100***
	10000	0.25	20	13	10.4	64x105	LPA2C103MD105***
	12000	0.25	15	10	11.3	64x105	LPA2C123MD105***
	15000	0.25	14	9	14.3	64x130	LPA2C153MD130***
		0.25	12	8	14.3	77x105	LPA2C153ME105***
	18000	0.25	12	8	15.6	64x130	LPA2C183MD130***
		0.25	12	8	15.6	77x115	LPA2C183ME115***
	22000	0.25	9	6	18.3	77x130	LPA2C223ME130***
		0.25	9	6	18.3	90x105	LPA2C223MF105***
	25000	0.25	9	6	19.6	77x130	LPA2C253ME130***
		0.25	9	6	19.6	90x105	LPA2C253MF105***
	27000	0.25	9	6	21.5	77x155	LPA2C273ME155***
		0.25	9	6	21.5	90x130	LPA2C273MF130***
	33000	0.25	8	5	23.8	90x130	LPA2C333MF130***
		0.25	8	5	23.8	90x157	LPA2C333MF157***
	39000	0.25	6	4	27.9	90x157	LPA2C393MF157***
		0.25	6	4	27.9	101x155	LPA2C333MG155***
	47000	0.25	5	3	31.1	90x170	LPA2C473MF170***
		0.25	5	3	31.1	101x155	LPA2C473MG155***
	56000	0.25	5	3	33.6	90x196	LPA2C563MF196***
	68000	0.25	5	3	36.5	90x220	LPA2C683MF220***
	82000	0.25	5	3	39.1	90x250	LPA2C823MF250***
	100000	0.25	5	3	42.3	101x250	LPA2C104MG250***
200 2D (250)	2200	0.25	57	38	3.9	36x100	LPA2D222MA100***
	3300	0.25	36	24	4.9	51x80	LPA2D332MC080***
	4700	0.25	30	20	6.4	51x100	LPA2D472MC100***
	5600	0.25	27	18	7.6	51x100	LPA2D562MC100***
	6800	0.25	21	14	8.8	51x130	LPA2D682MC130***
	8200	0.25	17	11	9.4	64x105	LPA2D822MD105***
	10000	0.25	14	9	10.4	64x105	LPA2D103MD105***
		0.25	14	9	10.4	77x96	LPA2D822ME096***
	15000	0.25	11	7	14.4	77x105	LPA2D153ME105***
		0.25	11	7	14.4	77x115	LPA2D153ME115***
	18000	0.25	9	6	16.5	77x130	LPA2D183ME130***
		0.25	9	6	16.5	77x155	LPA2D183ME155***
	22000	0.25	8	5	19.6	77x155	LPA2D223ME155***
		0.25	8	5	19.6	90x130	LPA2D223MF130***
	33000	0.25	6	4	25.3	77x220	LPA2D333ME220***
		0.25	6	4	25.3	90x157	LPA2D333MF157***
	47000	0.25	5	3	27.6	90x250	LPA2D473MF250***
		0.25	5	3	27.6	101x190	LPA2D473MG190***
	56000	0.25	5	3	29.8	101x250	LPA2D563MG250***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	3300	0.25	35	23	5.4	51x100	LPA2E332MC100***
	4700	0.25	26	17	7.1	64x105	LPA2E472MD105***
	6800	0.25	18	12	9.1	64x115	LPA2E682MD115***
		0.25	18	12	9.1	77x96	LPA2E682ME096***
	8200	0.25	17	11	10.1	64x115	LPA2E822MD115***
		0.25	17	11	10.1	77x105	LPA2E822ME105***
	10000	0.25	14	9	11.7	64x120	LPA2E103MD120***
		0.25	14	9	11.7	77x105	LPA2E103ME105***
	15000	0.25	11	7	15.1	77x130	LPA2E153ME130***
		0.25	11	7	15.1	77x155	LPA2E153ME155***
	18000	0.25	9	6	17.7	77x155	LPA2E183ME155***
		0.25	9	6	17.7	90x130	LPA2E183MF130***
	22000	0.25	7	5	20.9	77x170	LPA2E223ME170***
		0.25	7	5	20.9	90x157	LPA2E223MF157***
	25000	0.25	7	5	21.5	77x190	LPA2E253ME190***
		0.25	7	5	21.5	90x157	LPA2E253MF157***
	27000	0.25	7	5	22.7	77x236	LPA2E273ME236***
		0.25	7	5	22.7	90x157	LPA2E273MF157***
	33000	0.25	6	4	23.9	77x250	LPA2E333ME250***
		0.25	6	4	23.9	90x170	LPA2E333MF170***
	39000	0.25	6	4	25.9	90x196	LPA2E393MF196***
		0.25	6	4	25.9	101x155	LPA2E393MG155***
	47000	0.25	5	3	27.8	90x250	LPA2E473MF250***
		0.25	5	3	27.8	101x190	LPA2E473MG190***
	56000	0.25	5	3	29.6	101x250	LPA2E563MG250***
350 2V (400)	1000	0.2	156	104	3.4	36x100	LPA2V102MA100***
	1500	0.2	108	72	4.3	51x80	LPA2V152MC080***
	1800	0.2	87	58	5.1	51x100	LPA2V182MC100***
	2200	0.2	72	48	5.7	51x100	LPA2V222MC100***
	2700	0.2	59	39	7.1	64x105	LPA2V272MD105***
	3300	0.2	48	32	7.9	64x105	LPA2V332MD105***
	3900	0.2	42	28	9.0	64x115	LPA2V392MD115***
	4700	0.2	38	25	10.3	64x130	LPA2V472MD130***
	5600	0.2	33	22	11.4	77x115	LPA2V562ME115***
	6800	0.2	26	17	13.1	77x130	LPA2V682ME130***
	8200	0.2	21	14	15.4	77x155	LPA2V822ME155***
	10000	0.2	18	12	18.1	90x157	LPA2V103MF157***
	12000	0.2	15	10	20.0	90x157	LPA2V123MF157***
	15000	0.2	12	8	24.5	90x196	LPA2V153MF196***
		0.2	12	8	24.5	101x155	LPA2V153MG155***
	18000	0.2	11	7	28.8	90x170	LPA2V183MF170***
	22000	0.2	9	6	31.6	90x196	LPA2V223MF196***
	25000	0.2	9	6	33.1	90x220	LPA2V253MF220***
	27000	0.2	8	5	35.9	90x236	LPA2V273MF236***
	33000	0.2	8	5	37.7	101x250	LPA2V333MG250***

■ LPA series : 85℃ 3000 hours standard screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	1000	0.20	123	82	3.5	51x80	LPA2G102MC080***
	1200	0.20	102	68	3.8	51x80	LPA2G122MC080***
	1500	0.20	87	58	4.7	51x80	LPA2G152MC080***
	1800	0.20	71	47	5.2	51x100	LPA2G182MC100***
	2200	0.20	60	40	6.4	51x100	LPA2G222MC100***
	2500	0.20	54	36	6.7	51x100	LPA2G252MC100***
		0.20	54	36	6.7	64x105	LPA2G252MD105***
	2700	0.20	50	33	7.1	51x100	LPA2G272MC100***
		0.20	50	33	7.1	64x105	LPA2G272MD105***
	3300	0.20	47	31	8.2	64x105	LPA2G332MD105***
		0.20	47	31	8.2	64x115	LPA2G332MD115***
	3900	0.20	38	25	9.4	64x115	LPA2G392MD115***
		0.20	38	25	9.4	77x96	LPA2G392ME096***
	4700	0.20	36	24	10.5	64x120	LPA2G472MD120***
		0.20	36	24	10.5	64x135	LPA2G472MD135***
		0.20	36	24	10.5	77x115	LPA2G472ME115***
	5600	0.20	29	19	12.0	64x130	LPA2G562MD130***
		0.20	29	19	12.0	77x115	LPA2G562ME115***
		0.20	29	19	12.0	77x130	LPA2G562ME130***
	6800	0.20	24	16	14.1	77x130	LPA2G682ME130***
		0.20	24	16	14.1	77x143	LPA2G682ME143***
		0.20	24	16	14.1	77x155	LPA2G682ME155***
	7400	0.20	23	15	15.5	77x130	LPA2G742ME130***
		0.20	23	15	15.5	77x155	LPA2G742ME155***
	8200	0.20	21	14	16.5	77x145	LPA2G822ME145***
		0.20	21	14	16.5	77x155	LPA2G822ME155***
		0.20	21	14	16.5	90x130	LPA2G822MF130***
		0.20	21	14	16.5	90x157	LPA2G822MF157***
	10000	0.20	17	11	18.3	77x155	LPA2G103ME155***
		0.20	17	11	18.3	77x178	LPA2G103ME178***
		0.20	17	11	18.3	90x130	LPA2G103MF130***
		0.20	17	11	18.3	90x157	LPA2G103MF157***
	12000	0.20	15	10	21.8	77x178	LPA2G123ME178***
		0.20	15	10	21.8	90x157	LPA2G123MF157***
		0.20	15	10	21.8	90x170	LPA2G123MF170***
		0.20	15	10	21.8	90x196	LPA2G123MF196***
	15000	0.20	14	9	26.4	77x220	LPA2G153ME220***
		0.20	14	9	26.4	90x170	LPA2G153MF170***
		0.20	14	9	26.4	90x196	LPA2G153MF196***
	18000	0.20	12	8	28.6	77x250	LPA2G183ME250***
		0.20	12	8	28.6	90x196	LPA2G183MF196***
	22000	0.20	11	7	30.3	90x236	LPA2G223MF236***
		0.20	11	7	30.3	101x190	LPA2G223MG190***
	25000	0.20	9	6	32.8	90x250	LPA2G253MF250***
		0.20	9	6	32.8	101x236	LPA2G253MG237***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	470	0.20	300	200	2.2	36x80	LPA2W471MA080***
	680	0.20	210	140	2.8	36x100	LPA2W681MA100***
	820	0.20	144	96	3.2	51x80	LPA2W821MC080***
	1000	0.20	123	82	3.5	51x80	LPA2W102MC080***
	1200	0.20	108	72	4.2	51x100	LPA2W122MC100***
	1500	0.20	87	58	5.1	51x100	LPA2W152MC100***
	1800	0.20	69	46	5.9	51x100	LPA2W182MC100***
		0.20	69	46	5.9	64x105	LPA2W182MD105***
	2200	0.20	55	39	6.3	64x105	LPA2W222MD105***
		0.20	55	39	6.3	77x96	LPA2W222ME096***
	2500	0.20	53	35	6.9	64x105	LPA2W252MD105***
		0.20	53	35	6.9	77x96	LPA2W252ME096***
	2700	0.20	50	33	7.3	64x105	LPA2W272MD105***
		0.20	50	33	7.3	77x96	LPA2W272ME096***
	2900	0.20	47	31	7.8	64x130	LPA2W292MD130***
		0.20	47	31	7.8	77x105	LPA2W292ME105***
	3300	0.20	45	30	8.7	64x115	LPA2W332MD115***
		0.20	45	30	8.7	77x105	LPA2W332ME105***
	3900	0.20	44	29	9.5	64x120	LPA2W392MD120***
		0.20	44	29	9.5	77x115	LPA2W392ME115***
		0.20	44	29	9.5	77x145	LPA2W392ME145***
	4700	0.20	36	24	11.2	77x115	LPA2W472ME115***
		0.20	36	24	11.2	77x130	LPA2W472ME130***
		0.20	36	24	11.2	77x145	LPA2W472ME145***
	5600	0.20	24	16	12.8	77x115	LPA2W562ME115***
		0.20	24	16	12.8	77x145	LPA2W562ME145***
		0.20	24	16	12.8	77x155	LPA2W562ME155***
	6800	0.20	21	14	15.1	77x155	LPA2W682ME155***
		0.20	21	14	15.1	90x157	LPA2W562MF157***
	7500	0.20	20	13	15.8	77x145	LPA2W752ME145***
		0.20	20	13	15.8	77x155	LPA2W752ME155***
	8200	0.20	18	12	16.5	77x155	LPA2W822ME155***
		0.20	18	12	16.5	90x157	LPA2W562MF157***
	10000	0.20	15	10	20.2	77x190	LPA2W103ME190***
		0.20	15	10	20.2	90x157	LPA2W103MF157***
		0.20	15	10	20.2	90x196	LPA2W103MF196***
	12000	0.20	12	8	23.6	90x196	LPA2W123MF196***
		0.20	12	8	23.6	90x236	LPA2W123MF236***
	15000	0.20	12	8	25.1	90x250	LPA2W153MF250***
		0.20	12	8	25.1	101x190	LPA2W153MG190***
	18000	0.20	12	8	27.3	90x250	LPA2W183MF250***
		0.20	12	8	27.3	101x190	LPA2W183MG190***
	20000	0.20	12	8	28.5	90x220	LPA2W203MF222***
		0.20	12	8	28.5	101x190	LPA2W203MG190***
	22000	0.20	12	8	30.8	101x250	LPA2W223MG250***

■ LPA series : 85℃ 3000 hours standard screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550)	1000	0.20	128	85	4.6	51x80	LPA2H102MC080***
		0.20	128	85	4.6	51x100	LPA2H102MC100***
	1200	0.20	105	70	5.2	51x100	LPA2H122MC100***
		0.20	105	70	5.2	64x96	LPA2H122MD096***
	1500	0.20	90	60	5.7	51x100	LPA2H152MC100***
		0.20	90	60	5.7	64x96	LPA2H152MD096***
	1800	0.20	75	50	6.4	64x105	LPA2H182MD105***
		0.20	75	50	6.4	77x105	LPA2H182ME105***
	2200	0.20	62	41	6.9	64x130	LPA2H222MD130***
		0.20	62	41	6.9	77x105	LPA2H222ME105***
	2500	0.20	59	39	7.5	64x130	LPA2H252MD130***
		0.20	59	39	7.5	77x115	LPA2H222ME115***
	2700	0.20	54	36	8.1	64x130	LPA2H272MD130***
		0.20	54	36	8.1	77x115	LPA2H222ME115***
	3300	0.20	48	32	9.6	64x130	LPA2H332MD130***
		0.20	48	32	9.6	77x130	LPA2H332ME130***
	3900	0.20	45	30	10.8	64x130	LPA2H392MD130***
		0.20	45	30	10.8	77x130	LPA2H392ME130***
	4700	0.20	41	27	12.1	77x130	LPA2H472ME130***
		0.20	41	27	12.1	77x145	LPA2H472ME145***
	5600	0.20	32	21	13.8	77x155	LPA2H562ME155***
		0.20	32	21	13.8	90x157	LPA2H472MF157***
	6800	0.20	27	18	15.8	77x155	LPA2H682ME155***
		0.20	27	18	15.8	77x190	LPA2H682ME190***
		0.20	27	18	15.8	90x157	LPA2H682MF157***
		0.20	27	18	15.8	90x170	LPA2H682MF170***
	8200	0.20	21	14	17.2	77x170	LPA2H822ME170***
		0.20	21	14	17.2	90x196	LPA2H822MF196***
	10000	0.20	18	12	22.1	90x170	LPA2H103MF170***
		0.20	18	12	22.1	90x236	LPS2H103MF236***
		0.20	18	12	22.1	101x155	LPS2H103MG155***
	12000	0.20	15	10	25.8	90x220	LPA2H123MF220***
		0.20	15	10	25.8	90x236	LPS2H123MF236***
		0.20	15	10	25.8	101x190	LPA2H123MG190***
	15000	0.20	12	8	28.3	90x250	LPA2H153MF250***
		0.20	12	8	28.3	101x236	LPA2H153MG236***
	18000	0.20	11	7	31.6	101x250	LPA2H183MG250***

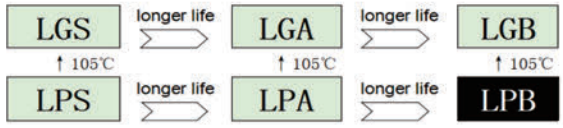
WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
550 2Y (600)	680	0.20	279	186	2.8	51x80	LPA2Y681MC080***
	820	0.20	173	115	3.8	51x80	LPA2Y821MC080***
		0.20	173	115	3.8	51x100	LPA2Y821MC100***
	1000	0.20	128	85	4.6	51x100	LPA2Y102MC100***
		0.20	128	85	4.6	64x96	LPA2Y102MD096***
	1200	0.20	105	70	5.2	51x100	LPA2Y122MC100***
		0.20	105	70	5.2	64x96	LPA2Y122MD096***
	1500	0.20	90	60	5.7	64x96	LPA2Y152MD096***
		0.20	90	60	5.7	77x105	LPA2Y152ME105***
	1800	0.20	75	50	6.4	64x105	LPA2Y182MD105***
		0.20	75	50	6.4	77x105	LPA2Y182ME105***
	2200	0.20	62	41	6.9	64x130	LPA2Y222MD130***
		0.20	62	41	6.9	77x105	LPA2Y222ME105***
	2500	0.20	59	39	7.5	64x130	LPA2Y252MD130***
		0.20	59	39	7.5	77x115	LPA2Y222ME115***
	2700	0.20	54	36	8.1	64x130	LPA2Y272MD130***
		0.20	54	36	8.1	77x115	LPA2Y222ME115***
	3300	0.20	48	32	9.6	77x115	LPA2Y332ME115***
		0.20	48	32	9.6	77x130	LPA2Y332ME130***
	3900	0.20	45	30	10.8	77x130	LPA2Y392ME130***
		0.20	45	30	10.8	77x145	LPA2Y392ME145***
	4700	0.20	41	27	12.1	77x145	LPA2Y472ME145***
		0.20	41	27	12.1	77x155	LPA2Y472ME155***
	5600	0.20	32	21	13.8	77x170	LPA2Y562ME170***
		0.20	32	21	13.8	90x157	LPA2Y472MF157***
	6800	0.20	27	18	15.8	77x190	LPA2Y682ME190***
		0.20	27	18	15.8	77x196	LPA2Y682ME196***
		0.20	27	18	15.8	90x157	LPA2Y682MF157***
		0.20	27	18	15.8	90x170	LPA2Y682MF170***
	8200	0.20	21	14	17.2	77x220	LPA2Y822ME220***
		0.20	21	14	17.2	90x196	LPA2Y822MF196***
	10000	0.20	18	12	22.1	90x220	LPA2Y103MF220***
		0.20	18	12	22.1	90x236	LPA2Y103MF236***
		0.20	18	12	22.1	101x170	LPA2Y103MG170***
	12000	0.20	12	8	25.8	90x250	LPA2Y123MF250***
		0.20	12	8	25.8	101x190	LPA2Y123MG190***
	15000	0.20	11	7	28.3	101x250	LPA2Y153MG250***

■ LPA series : 85℃ 3000 hours standard screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
600 2S (600)	680	0.20	375	250	3.1	51x100	LPA2S681MC100***
	820	0.20	195	130	3.8	51x100	LPA2S821MC100***
		0.20	195	130	3.8	64x96	LPA2S821MD096***
	1000	0.20	128	85	4.6	64x96	LPA2S102MD096***
		0.20	128	85	4.6	64x115	LPA2S102MD115***
	1200	0.20	105	70	5.2	64x115	LPA2S122MD115***
		0.20	105	70	5.2	77x105	LPA2S122ME105***
	1500	0.20	90	60	5.7	64x130	LPA2S152MD130***
		0.20	90	60	5.7	77x105	LPA2S152ME105***
	1800	0.20	75	50	6.4	64x130	LPA2S182MD130***
		0.20	75	50	6.4	77x115	LPA2S182ME115***
	2200	0.20	62	41	6.9	64x130	LPA2S222MD130***
		0.20	62	41	6.9	77x115	LPA2S222ME115***
	2500	0.20	59	39	7.5	77x130	LPA2S252ME130***
		0.20	59	39	7.5	77x145	LPA2S252ME145***
	2700	0.20	54	36	8.1	77x145	LPA2S272ME145***
		0.20	54	36	8.1	77x155	LPA2S272ME155***
	3300	0.20	48	32	9.6	77x155	LPA2S332ME155***
		0.20	48	32	9.6	77x170	LPA2S332ME170***
	3900	0.20	45	30	10.8	77x170	LPA2S392ME170***
		0.20	45	30	10.8	90x145	LPA2S392MF145***
	4700	0.20	41	27	12.1	77x196	LPA2S472ME196***
		0.20	41	27	12.1	90x157	LPA2S472MF157***
	5600	0.20	32	21	13.8	77x220	LPA2S562ME220***
		0.20	32	21	13.8	90x170	LPA2S562MF170***
	6800	0.20	27	18	15.8	77x250	LPA2S682ME250***
		0.20	27	18	15.8	90x196	LPA2S682MF196***
		0.20	27	18	15.8	101x155	LPA2S682MG155***
	8200	0.20	21	14	17.2	90x236	LPA2S822MF236***
		0.20	21	14	17.2	101x190	LPA2S822MG190***
	10000	0.20	18	12	22.1	90x250	LPA2S103MF250***
		0.20	18	12	22.1	101x236	LPA2S103MG236***
	12000	0.20	15	10	25.8	101x250	LPA2S123MG250***

*** Indicates mounting method, terminal diameter, internal teeth.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
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LPB series 85℃ 5000 hours





- Rohs requirements
- 85℃ 5000 hours series
- Used for switching power supply, frequency converter, air conditioning, filter circuit, laser spot welding machine, printed circuit board and other general industrial products

■ Product description

Item	Characteristic	
Operating temperature range	-40℃ ~ +85℃	-25℃ ~ +85℃
Rated voltage(WV/V)	400V ~ 450V	460V ~ 550V
Capacitance(CAP/C)	470 ~ 330000μF	
Tolerance(CAP/C)	±20% (25℃, 120Hz)	
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)	
Dissipation factor DF/tanδ(25℃, 120Hz)	≤0.20	
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6	
	C(-25℃/C(+25℃)≥0.7	

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	8000h	>100000h	5000h	5000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

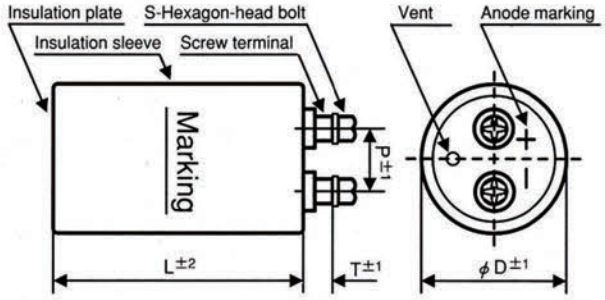
■ Ripple current correction factor

Temp.℃	40	60	70	85
Coefficient	2.7	2.0	1.7	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.10	1.30	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

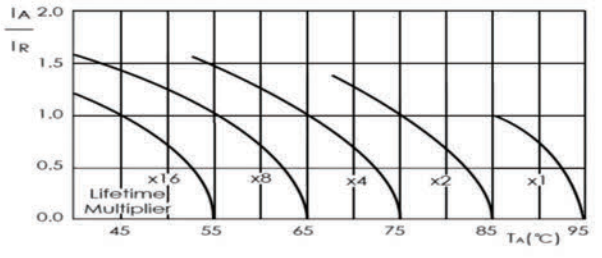
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



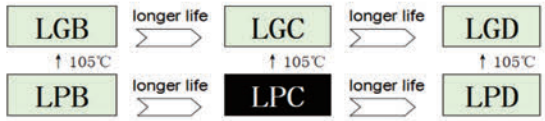
IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 85°C
TA:Environment temp

■ LPB series: 85℃ 5000 hours screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	2700	0.20	74.0	36	10	64x105	LPB2G272MD105***
	3300	0.20	65.0	21	11	64x115	LPB2G332MD115***
	3900	0.20	50.0	19	12.8	64x130	LPB2G392MD130***
	3900	0.20	50.0	24	13.5	77x115	LPB2G392ME115***
	4700	0.20	40.0	19	14.8	64x130	LPB2G472MD130***
	4700	0.20	40.0	19	14.8	77x115	LPB2G472ME115***
	5600	0.20	34.0	16	16.2	77x130	LPB2G562ME130***
	5600	0.20	34.0	16	16.2	90x130	LPB2G562MF130***
	6800	0.20	28.0	13	18.7	77x155	LPB2G682ME155***
	6800	0.20	28.0	13	18.7	90x130	LPB2G682MF130***
	8200	0.20	22.0	10	22	77x155	LPB2G822ME155***
	10000	0.20	18.0	8	24.2	90x130	LPB2G103MF130***
	12000	0.20	22.0	10	28.5	90x157	LPB2G123MF157***
450 2W (500)	2200	0.20	90.0	44	10.4	64x96	LPB2W222MD096***
	2200	0.20	90.0	44	11.5	77x96	LPB2W222ME096***
	2700	0.20	74.0	36	12.8	64x130	LPB2W272MD130***
	3300	0.20	58.0	28	15.2	64x155	LPB2W332MD155***
	3300	0.20	58.0	28	15.2	77x130	LPB2W332ME130***
	3900	0.20	52.0	25	15.8	64x145	LPB2W392MD145***
	3900	0.20	52.0	25	16.5	77x130	LPB2W392ME130***
	4700	0.20	40.0	19	18	77x145	LPB2W472ME145***
	4700	0.20	40.0	19	20.8	90x130	LPB2W472MF130***
	5600	0.20	34.0	16	21.8	77x160	LPB2W562ME160***
	5600	0.20	34.0	16	24.2	90x140	LPB2W562MF140***
	6800	0.20	28.0	13	24.9	90x157	LPB2W682MF157***
	8200	0.20	22.0	10	32.2	90x157	LPB2W822MF157***
	10000	0.20	18.0	8	36.9	90x170	LPB2W103MF170***
500 2H (550)	1500	0.20	146.0	72	8.6	64x115	LPB2H152MD115***
	1800	0.20	130.0	60	10	64x130	LPB2H182MD130***
	2200	0.20	100.0	49	11.7	64x145	LPB2H222MD145***
	2700	0.20	80.0	39	15	77x115	LPB2H272ME115***
	3300	0.20	66.0	32	17.5	77x145	LPB2H332ME145***
	3900	0.20	56.0	27	20.2	77x155	LPB2H392ME155***
	4700	0.20	46.0	22	21.8	90x145	LPB2H472MF145***
	5600	0.20	38.0	18	25.3	90x157	LPB2H562MF157***
	6800	0.20	30.0	14	29	90x170	LPB2H682MF170***

*** Indicates mounting method, terminal diameter, internal teeth.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
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LPC series 85℃ 8000 hours





- Rohs requirements
- 85℃ 8000 hours series
- Used for switching power supplies, inverters, rectifiers, energy storage and other industrial products. industrial products

■ Product description

Item	Characteristic	
Operating temperature range	-40℃ ~ +85℃	-25℃ ~ +85℃
Rated voltage(WV/V)	400V ~ 450V	500V
Capacitance(CAP/C)	1500 ~ 12000μF	
Tolerance(CAP/C)	±20% (25℃, 120Hz)	
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)	
Dissipation factor DF/tanδ(25℃, 120Hz)	≤0.20	
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6	
	C(-25℃/C(+25℃)≥0.7	

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	10000h	>150000h	8000h	9000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

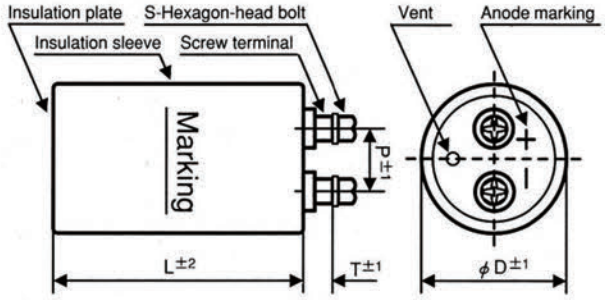
■ Ripple current correction factor

Temp.℃	40	60	70	85
Coefficient	2.7	2.0	1.7	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.10	1.30	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

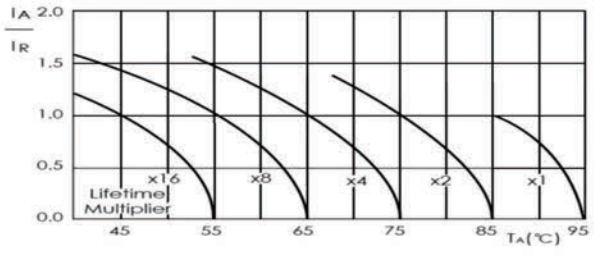
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 85°C
TA:Environment temp

■ LPC series : 85℃ 8000 hours standard screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	2700	0.20	74.0	36	10	64x105	LPC2G272MD100***
	3300	0.20	65.0	21	11	64x115	LPC2G332MD115***
	3900	0.20	50.0	19	12.8	64x130	LPC2G392MD130***
	3900	0.20	50.0	24	13.5	77x115	LPC2G392ME115***
	4700	0.20	40.0	19	14.8	64x130	LPC2G472MD155***
	4700	0.20	40.0	19	14.8	77x115	LPC2G472ME115***
	5600	0.20	34.0	16	16.2	77x130	LPC2G562ME130***
	5600	0.20	34.0	16	16.2	90x130	LPC2G562MF130***
	6800	0.20	28.0	13	18.7	77x155	LPC2G682ME155***
	6800	0.20	28.0	13	18.7	90x130	LPC2G682MF145***
	8200	0.20	22.0	10	22	77x155	LPC2G822ME155***
	10000	0.20	18.0	8	24.2	90x130	LPC2G103MF130***
	12000	0.20	22.0	10	28.5	90x157	LPC2G123MF157***
450 2W (500)	2200	0.20	90.0	44	10.4	64x96	LPC2W222MD100**
	2200	0.20	90.0	44	11.5	77x96	LPC2W222ME096**
	2700	0.20	74.0	36	12.8	64x130	LPC2W272MD130**
	3300	0.20	58.0	28	15.2	64x155	LPC2W332MD155**
	3300	0.20	58.0	28	15.2	77x130	LPC2W332ME115**
	3900	0.20	52.0	25	15.8	64x145	LPC2W392MD155**
	3900	0.20	52.0	25	16.5	77x130	LPC2W392ME130**
	4700	0.20	40.0	19	18	77x145	LPC2W472ME145**
	4700	0.20	40.0	19	20.8	90x130	LPC2W472MF130**
	5600	0.20	34.0	16	21.8	77x160	LPC2W562ME155**
	5600	0.20	34.0	16	24.2	90x140	LPC2W562MF130**
	6800	0.20	28.0	13	24.9	90x157	LPC2W682MF157**
	8200	0.20	22.0	10	32.2	90x157	LPC2W822MF157**
	10000	0.20	18.0	8	36.9	90x170	LPC2W103MF170**
500 2H (550)	1500	0.20	146.0	72	8.6	64x115	LPC2H152MD115**
	1800	0.20	130.0	60	10	64x130	LPC2H182MD130**
	2200	0.20	100.0	49	11.7	64x145	LPC2H222MD145**
	2700	0.20	80.0	39	15	77x115	LPC2H272ME115**
	3300	0.20	66.0	32	17.5	77x145	LPC2H332ME145**
	3900	0.20	56.0	27	20.2	77x155	LPC2H392ME155**
	4700	0.20	46.0	22	21.8	90x145	LPC2H472MF130**
	5600	0.20	38.0	18	25.3	90x157	LPC2H562MF157**
	6800	0.20	30.0	14	29	90x170	LPC2H682MF170**

*** Indicates mounting method, terminal diameter, internal teeth.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
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LPD series 85℃ 10000 hours

LGC longer life LGD longer life LGE
↑ 105℃ ↑ 105℃ ↑ 105℃
LPC longer life **LPD** longer life LPE



- Rohs requirements
- 85℃ 10000 hours series
- Used for switching power supply, frequency converter, air conditioning, filter circuit, laser spot welding machine,printed circuit board and other general industrial products

■ Product description

Item	Characteristic	
Operating temperature range	-40℃ ~ +85℃	-25℃ ~ +85℃
Rated voltage(WV/V)	400V ~ 450V	500V
Capacitance(CAP/C)	1500 ~ 15000μF	
Tolerance(CAP/C)	±20% (25℃, 120Hz)	
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)	
Dissipation factor DF/tanδ(25℃, 120Hz)	≤0.20	
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6	
	C(-25℃/C(+25℃)≥0.7	

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	10000h	>25000h	10000h	10000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

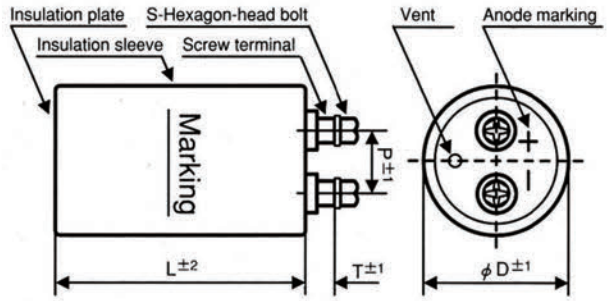
■ Ripple current correction factor

Temp.℃	40	60	70	85
Coefficient	2.7	2.0	1.7	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.10	1.30	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

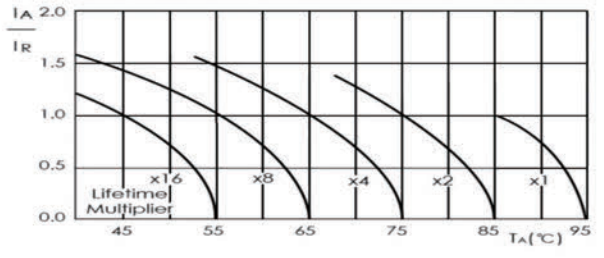
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 85°C
TA:Environment temp

■ LPD series : 85℃ 10000 hours screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	2700	0.20	74	36	8.2	64x100	LPD2G272MD100***
	3300	0.20	58	28	10.2	64x115	LPD2G332MD115***
	3900	0.20	52	26	12.3	64x130	LPD2G392MD130***
	3900	0.20	50	24	12.2	77x115	LPD2G392ME115***
	4700	0.20	40	19	12.9	64x130	LPD2G472MD130***
	4700	0.20	42	21	14.8	77x115	LPD2G472ME115***
	5600	0.20	36	18	16.9	77x130	LPD2G562ME130***
	5600	0.20	34	16	16.9	90x130	LPD2G562MF130***
	6800	0.20	30	15	19.5	77x155	LPD2G682ME155***
	6800	0.20	28	13	19.5	90x145	LPD2G682MF145***
	8200	0.20	24	12	22.9	90x145	LPD2G822MF145***
	10000	0.20	20	10	25.3	90x145	LPD2G103MF145***
	12000	0.20	18	9	27.3	90x170	LPD2G123MF170***
	15000	0.20	16	8	29.9	90x196	LPD2G153MF196***
450 2W (500)	2200	0.20	90	44	10.4	64x96	LPD2W222MD096***
	2200	0.20	90	44	11.5	77x96	LPD2W222ME096***
	2700	0.20	74	36	12.8	64x130	LPD2W272MD130***
	3300	0.20	58	28	15.2	64x130	LPD2W332MD130***
	3300	0.20	58	28	15.2	77x130	LPD2W332ME130***
	3900	0.20	52	25	15.8	64x130	LPD2W392MD130***
	3900	0.20	52	25	16.5	77x130	LPD2W392ME130***
	4700	0.20	40	19	18	77x140	LPD2W472ME140***
	4700	0.20	40	19	20.8	90x130	LPD2W472MF130***
	5600	0.20	34	16	21.8	77x160	LPD2W562ME160***
	5600	0.20	34	16	24.2	90x157	LPD2W562MF157***
	6800	0.20	28	13	24.9	90x157	LPD2W682MF157***
	8200	0.20	22	10	32.2	90x157	LPD2W822MF157***
	10000	0.20	18	8	36.9	90x170	LPD2W103MF170***
500 2H (550)	1500	0.20	146	72	8.6	64x115	LPD2H152MD115***
	1800	0.20	130	60	10	64x130	LPD2H182MD130***
	2200	0.20	100	49	11.7	64x130	LPD2H222MD130***
	2700	0.20	80	39	15	77x130	LPD2H272ME130***
	3300	0.20	66	32	17.5	77x145	LPD2H332ME145***
	3900	0.20	56	27	20.2	77x155	LPD2H392ME155***
	4700	0.20	46	22	21.8	90x130	LPD2H472MF130***
	5600	0.20	38	18	25.3	90x157	LPD2H562MF157***
	6800	0.20	30	14	29	90x170	LPD2H682MF170***

*** Indicates mounting method, terminal diameter, internal teeth.
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LPE series 85℃ 12000 hours

LGD	longer life	LGE	longer life	LGF
↑ 105℃		↑ 105℃		↑ 105℃
LPD	longer life	LPE	longer life	LPF

- Rohs requirements
- 85℃ for 12000 hours
- Used for switching power supply, servo, inverter, medical electronics, photovoltaic solar energy, wind energy long life industrial products



■ Product description

Item	Characteristic
Operating temperature range	-40℃ ~ +85℃
Rated voltage(WV/V)	350V ~ 450V
Capacitance(CAP/C)	1000 ~ 15000μF
Tolerance(CAP/C)	±20% (25℃, 120Hz)
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)
Dissipation factor DF/tanδ(25℃, 120Hz)	≤0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6
	C(-25℃/C(+25℃)≥0.7

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	>12000h	>200000h	12000h	12000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

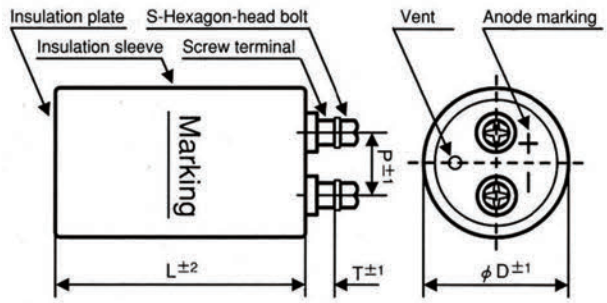
■ Ripple current correction factor

Temp.℃	40	55	60	85
Coefficient	2.7	2.0	1.7	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.10	1.30	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

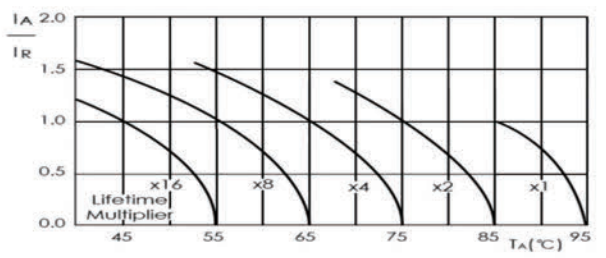
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	5.5	EP
64	28.6	M5×10	5.5	EP
77	31.4	M5×10	4.5	EP
90	31.4	M5×10	4.5	EP
101	41.5	M8×17	11.5	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 85°C
TA:Environment temp

■ LPE series : 85℃ 12000 hours screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	1000	0.20	99	69	3.8	51x80	LPE2V102MC080***
	1200	0.20	90	63	4.2	51x80	LPE2V122MC080***
	1500	0.20	76	53	5.1	51x100	LPE2V152MC100***
	1800	0.20	60	42	5.7	51x100	LPE2V182MC100***
	2200	0.20	43	30	7.1	51x100	LPE2V222MC100***
	2700	0.20	36	25	7.6	64x96	LPE2V272MD096***
	3300	0.20	33	23	9.1	64x115	LPE2V332MD115***
	3900	0.20	26	18	10.4	64x130	LPE2V392MD130***
	4700	0.20	21	15	12.3	64x145	LPE2V472MD145***
	4700	0.20	23	16	11.5	77x115	LPE2V472ME115***
	5600	0.20	19	13	14.6	77x130	LPE2V562ME130***
	5600	0.20	20	14	13.2	77x155	LPE2V562ME155***
	6800	0.20	17	12	15.5	77x155	LPE2V682ME155***
	8200	0.20	16	11	18.2	90x157	LPE2V822MF157***
	10000	0.20	14	10	19.8	90x157	LPE2V103MF157***
	12000	0.20	11	8	23.8	90x196	LPE2V123MF196***
	15000	0.20	9	6	28.3	90x236	LPE2V153MF236***
400 2G (450)	1000	0.20	99	69	3.8	51x80	LPE2G153MC080***
	1200	0.20	90	63	4.6	51x100	LPE2G122MC100***
	1500	0.20	74	52	5.6	51x100	LPE2G152MC100***
	1800	0.20	60	42	6.5	51x100	LPE2G182MC100***
	2200	0.20	56	39	6.9	64x96	LPE2G222MD096***
	2700	0.20	53	37	8.2	64x115	LPE2G272MD115***
	3300	0.20	39	27	9.6	64x130	LPE2G332MD130***
	3900	0.20	36	25	11.1	64x145	LPE2G392MD145***
	3900	0.20	39	27	10.4	77x115	LPE2G392ME115***
	4700	0.20	27	19	13.4	64x145	LPE2G472MD145***
	4700	0.20	29	20	12.1	77x130	LPE2G472ME130***
	5600	0.20	26	18	14.6	77x145	LPE2G562ME145***
	5600	0.20	26	18	14.1	77x155	LPE2G562ME155***
	6800	0.20	21	15	16.5	90x157	LPE2G682MF157***
	8200	0.20	20	14	18.2	90x157	LPE2G822MF157***
	10000	0.20	16	11	21.7	90x196	LPE2G103MF196***
	12000	0.20	10	7	25.8	90x236	LPE2G123MF236***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	1000	0.20	99	69	4.3	51x100	LPE2W102MC100***
	1200	0.20	93	65	5.1	51x100	LPE2W122MC100***
	1500	0.20	74	52	5.9	51x100	LPE2W152MC100***
	1800	0.20	60	42	6.3	64x96	LPE2W182MD096***
	2200	0.20	57	40	7.5	64x115	LPE2W222MD115***
	2700	0.20	59	41	8.6	64x130	LPE2W272MD130***
	2700	0.20	57	40	8.8	77x115	LPE2W272ME115***
	3300	0.20	43	30	10.2	64x145	LPE2W332MD145***
	3300	0.20	46	32	10.2	77x130	LPE2W332ME130***
	3900	0.20	39	27	12.3	77x145	LPE2W392ME145***
	4700	0.20	33	23	12.9	77x155	LPE2W472ME155***
	5600	0.20	29	20	15.4	77x195	LPE2W562ME195***
	5600	0.20	31	22	14.9	90x157	LPE2W562MF157***
	6800	0.20	29	20	18.1	90x196	LPE2W682MF196***
	8200	0.20	24	17	19.9	90x196	LPE2W822MF196***
	10000	0.20	23	16	23.8	90x236	LPE2W103MF236***

*** Indicates mounting method, terminal diameter, internal teeth.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
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LPF series 85℃ 15000 hours

LGE longer life LGF longer life LGG
↑ 105℃ ↑ 105℃ ↑ 105℃
LPE longer life LPF longer life LPG



- Rohs requirements
- 85℃ 15000 hours series
- Used for switching power supply, servo, inverter, medical electronics, photovoltaic solar energy, wind energy long life industrial products

■ Product description

Item	Characteristic
Operating temperature range	-40℃ ~ +85℃
Rated voltage(WV/V)	350V ~ 450V
Capacitance(CAP/C)	1000 ~ 15000μF
Tolerance(CAP/C)	±20% (25℃, 120Hz)
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)
Dissipation factor DF/tanδ(25℃, 120Hz)	≤0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6
	C(-25℃/C(+25℃)≥0.7

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	>15000h	>200000h	15000h	15000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

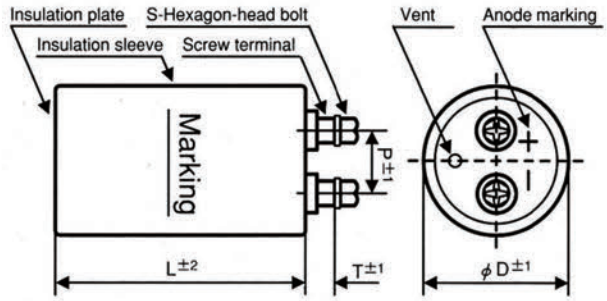
■ Ripple current correction factor

Temp.℃	40	55	60	85
Coefficient	2.7	2.0	1.7	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.10	1.30	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

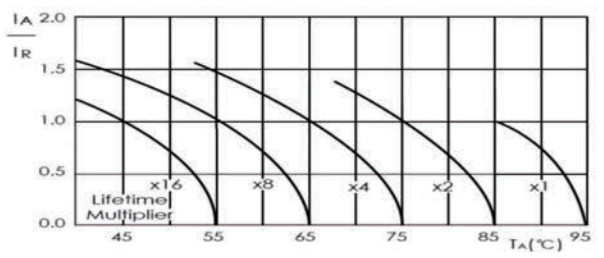
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	5.5	EP
64	28.6	M5×10	5.5	EP
77	31.4	M5×10	4.5	EP
90	31.4	M5×10	4.5	EP
101	41.5	M8×17	11.5	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 85°C
TA:Environment temp

■ LPF series:85℃ 15000 hours screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	1000	0.20	99	69	3.8	51x80	LPF2V102MC080***
	1200	0.20	90	63	4.2	51x80	LPF2V122MC080***
	1500	0.20	76	53	5.1	51x100	LPF2V152MC100***
	1800	0.20	60	42	5.7	51x100	LPF2V182MC100***
	2200	0.20	43	30	7.1	51x100	LPF2V222MC100***
	2700	0.20	36	25	7.6	64x96	LPF2V272MD096***
	3300	0.20	33	23	9.1	64x115	LPF2V332MD115***
	3900	0.20	26	18	10.4	64x130	LPF2V392MD130***
	4700	0.20	21	15	12.3	64x145	LPF2V472MD145***
	4700	0.20	23	16	11.5	77x115	LPF2V472ME115***
	5600	0.20	19	13	14.6	77x130	LPF2V562ME130***
	5600	0.20	20	14	13.2	77x155	LPF2V562ME155***
	6800	0.20	17	12	15.5	77x155	LPF2V682ME155***
	8200	0.20	16	11	18.2	90x157	LPF2V822MF157***
	10000	0.20	14	10	19.8	90x157	LPF2V103MF157***
	12000	0.20	11	8	23.8	90x196	LPF2V123MF196***
	15000	0.20	9	6	28.3	90x236	LPF2V153MF236***
400 2G (450)	1000	0.20	99	69	3.8	51x80	LPF2G153MC080***
	1200	0.20	90	63	4.6	51x100	LPF2G122MC100***
	1500	0.20	74	52	5.6	51x100	LPF2G152MC100***
	1800	0.20	60	42	6.5	51x100	LPF2G182MC100***
	2200	0.20	56	39	6.9	64x96	LPF2G222MD096***
	2700	0.20	53	37	8.2	64x115	LPF2G272MD115***
	3300	0.20	39	27	9.6	64x130	LPF2G332MD130***
	3900	0.20	36	25	11.1	64x145	LPF2G392MD145***
	3900	0.20	39	27	10.4	77x115	LPF2G392ME115***
	4700	0.20	27	19	13.4	64x145	LPF2G472MD145***
	4700	0.20	29	20	12.1	77x130	LPF2G472ME130***
	5600	0.20	26	18	14.6	77x145	LPF2G562ME145***
	5600	0.20	26	18	14.1	77x155	LPF2G562ME155***
	6800	0.20	21	15	16.5	90x157	LPF2G682MF157***
	8200	0.20	20	14	18.2	90x157	LPF2G822MF157***
	10000	0.20	16	11	21.7	90x196	LPF2G103MF196***
	12000	0.20	10	7	25.8	90x236	LPF2G123MF236***
450 2W (500)	1000	0.20	99	69	4.3	51x100	LPF2W102MC100***
	1200	0.20	93	65	5.1	51x100	LPF2W122MC100***
	1500	0.20	74	52	5.9	51x100	LPF2W152MC100***
	1800	0.20	60	42	6.3	64x96	LPF2W182MD096***
	2200	0.20	57	40	7.5	64x115	LPF2W222MD115***
	2700	0.20	59	41	8.6	64x130	LPF2W272MD130***
	2700	0.20	57	40	8.8	77x115	LPF2W272ME115***
	3300	0.20	43	30	10.2	64x145	LPF2W332MD145***
	3300	0.20	46	32	10.2	77x130	LPF2W332ME130***
	3900	0.20	39	27	12.3	77x145	LPF2W392ME145***
	4700	0.20	33	23	12.9	77x155	LPF2W472ME155***
	5600	0.20	29	20	15.4	77x195	LPF2W562ME195***
	5600	0.20	31	22	14.9	90x157	LPF2W562MF157***
	6800	0.20	29	20	18.1	90x196	LPF2W682MF196***
	8200	0.20	24	17	19.9	90x196	LPF2W822MF196***
	10000	0.20	23	16	23.8	90x236	LPF2W103MF236***

*** Indicates mounting method, terminal diameter, internal teeth.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
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LPG series 85℃ 18000 hours

LGF	longer life	LGG	longer life	LGH
↑ 105℃		↑ 105℃		↑ 105℃
LPF	longer life	LPG	longer life	LPH

- Rohs requirements
- 85℃ for 18000 hours
- Used for switching power supply, servo, inverter, medical electronics, photovoltaic solar energy, wind energy long life industrial products



■ Product description

Item	Characteristic
Operating temperature range	-40℃ ~ +85℃
Rated voltage(WV/V)	350V ~ 450V
Capacitance(CAP/C)	1000 ~ 15000μF
Tolerance(CAP/C)	±20% (25℃, 120Hz)
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)
Dissipation factor DF/tanδ(25℃, 120Hz)	≤0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6
	C(-25℃/C(+25℃)≥0.7

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	>18000h	>200000h	18000h	18000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

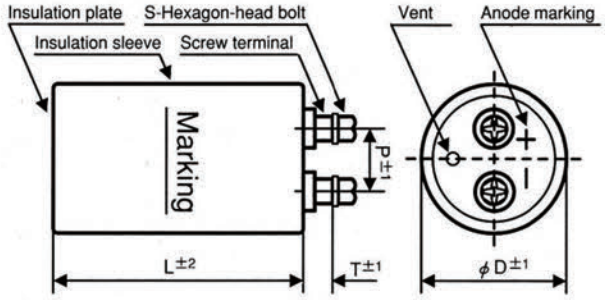
■ Ripple current correction factor

Temp.℃	40	55	60	85
Coefficient	2.7	2.0	1.7	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.10	1.30	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

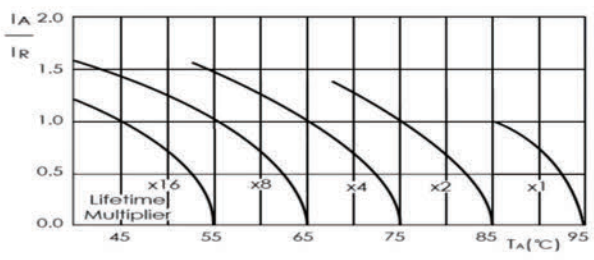
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	5.5	EP
64	28.6	M5×10	5.5	EP
77	31.4	M5×10	4.5	EP
90	31.4	M5×10	4.5	EP
101	41.5	M8×17	11.5	EP

■ Life curve



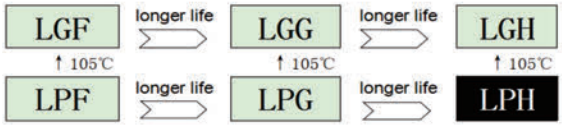
IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 85°C
TA:Environment temp

■ LPG series:85℃ 18000 hours screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	1000	0.20	99	69	3.8	51x80	LPG2V102MC080***
	1200	0.20	90	63	4.2	51x80	LPG2V122MC080***
	1500	0.20	76	53	5.1	51x100	LPG2V152MC100***
	1800	0.20	60	42	5.7	51x100	LPG2V182MC120***
	2200	0.20	43	30	7.1	51x100	LPG2V222MC130***
	2700	0.20	36	25	7.6	64x96	LPG2V272MD096***
	3300	0.20	33	23	9.1	64x115	LPG2V332MD115***
	3900	0.20	26	18	10.4	64x130	LPG2V392MD130***
	4700	0.20	21	15	12.3	64x145	LPG2V472MD145***
		0.20	23	16	11.5	77x115	LPG2V332ME115***
	5600	0.20	19	13	14.6	77x130	LPG2V562ME130***
		0.20	20	14	13.2	77x155	LPG2V562ME155***
	6800	0.20	17	12	15.5	77x155	LPG2V682ME155***
	8200	0.20	16	11	18.2	90x157	LPG2V822MF157***
	10000	0.20	14	10	19.8	90x157	LPG2V103MF157***
	12000	0.20	11	8	23.8	90x196	LPG2V123MF196***
	15000	0.20	9	6	28.3	90x236	LPG2V153MF236***
400 2G (450)	1000	0.20	99	69	3.8	51x80	LPG2G153MC080***
	1200	0.20	90	63	4.6	51x100	LPG2G122MC100***
	1500	0.20	74	52	5.6	51x100	LPG2G152MC120***
	1800	0.20	60	42	6.5	51x100	LPG2G182MC130***
	2200	0.20	56	39	6.9	64x96	LPG2G222MD096***
	2700	0.20	53	37	8.2	64x115	LPG2G272MD115***
	3300	0.20	39	27	9.6	64x130	LPG2G332MD130***
	3900	0.20	36	25	11.1	64x145	LPG2G392MD145***
		0.20	39	27	10.4	77x115	LPG2G392ME115***
	4700	0.20	27	19	13.4	64x145	LPG2G472MD145***
		0.20	29	20	12.1	77x130	LPG2G472ME130***
	5600	0.20	26	18	14.6	77x145	LPG2G562ME145***
		0.20	26	18	14.1	77x155	LPG2G562ME155***
	6800	0.20	21	15	16.5	90x157	LPG2G682MF157***
	8200	0.20	20	14	18.2	90x157	LPG2G822MF157***
	10000	0.20	16	11	21.7	90x196	LPG2G103MF196***
	12000	0.20	10	7	25.8	90x236	LPG2G123MF236***
450 2W (500)	1000	0.20	99	69	4.3	51x100	LPG2W102MC100***
	1200	0.20	93	65	5.1	51x100	LPG2W122MC120***
	1500	0.20	74	52	5.9	51x100	LPG2W152MC130***
	1800	0.20	60	42	6.3	64x96	LPG2W182MD096***
	2200	0.20	57	40	7.5	64x115	LPG2W222MD115***
	2700	0.20	59	41	8.6	64x130	LPG2W272MD130***
		0.20	57	40	8.8	77x115	LPG2W272ME115***
	3300	0.20	43	30	10.2	64x145	LPG2W332MD145***
		0.20	46	32	10.2	77x130	LPG2W332ME130***
	3900	0.20	39	27	12.3	77x145	LPG2W392ME145***
	4700	0.20	33	23	12.9	77x155	LPG2W472ME155***
	5600	0.20	29	20	15.4	77x195	LPG2W562ME195***
		0.20	31	22	14.9	90x157	LPG2W562MF157***
	6800	0.20	29	20	18.1	90x196	LPG2W682MF196***
	8200	0.20	24	17	19.9	90x196	LPG2W822MF196***
	10000	0.20	23	16	23.8	90x236	LPG2W103MF236***

*** Indicates mounting method, terminal diameter, internal teeth.
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LPH series 85℃ 20000 hours





- Rohs requirements
- 85℃ for 20000 hours
- Used for switching power supply, servo, inverter, medical electronics, photovoltaic solar energy, wind energy long life industrial products

■ Product description

Item	Characteristic
Operating temperature range	-40℃ ~ +85℃
Rated voltage(WV/V)	350V ~ 450V
Capacitance(CAP/C)	1000 ~ 15000μF
Tolerance(CAP/C)	±20% (25℃, 120Hz)
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)
Dissipation factor DF/tanδ(25℃, 120Hz)	≤0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6
	C(-25℃/C(+25℃)≥0.7

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	>20000h	>200000h	20000h	20000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage Applied current Application temperature	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
	IR	1.2×IR	IR	IR = 0	IR = 0	
	85℃	40℃	85℃	85℃	85℃	

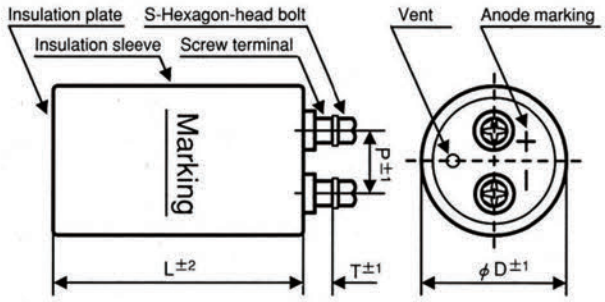
■ Ripple current correction factor

Temp.℃	40	55	60	85
Coefficient	2.7	2.0	1.7	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.10	1.30	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

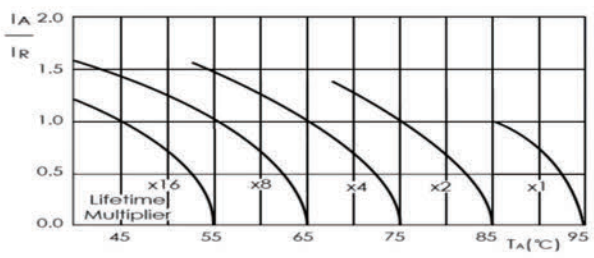
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	5.5	EP
64	28.6	M5×10	5.5	EP
77	31.4	M5×10	4.5	EP
90	31.4	M5×10	4.5	EP
101	41.5	M8×17	11.5	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 85°C
TA:Environment temp

■ LPH Series : 85℃ 20000 hours Screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	1000	0.20	99	69	3.8	51x80	LPH2V102MC080***
	1200	0.20	90	63	4.2	51x80	LPH2V122MC080***
	1500	0.20	76	53	5.1	51x100	LPH2V152MC100***
	1800	0.20	60	42	5.7	51x100	LPH2V182MC120***
	2200	0.20	43	30	7.1	51x100	LPH2V222MC130***
	2700	0.20	36	25	7.6	64x96	LPH2V272MD096***
	3300	0.20	33	23	9.1	64x115	LPH2V332MD115***
	3900	0.20	26	18	10.4	64x130	LPH2V392MD130***
	4700	0.20	21	15	12.3	64x145	LPH2V472MD145***
		0.20	23	16	11.5	77x115	LPH2V472ME115***
	5600	0.20	19	13	14.6	77x130	LPH2V562ME130***
		0.20	20	14	13.2	77x155	LPH2V562ME155***
	6800	0.20	17	12	15.5	77x155	LPH2V682ME155***
	8200	0.20	16	11	18.2	90x157	LPH2V822MF157***
	10000	0.20	14	10	19.8	90x157	LPH2V103MF157***
	12000	0.20	11	8	23.8	90x196	LPH2V123MF196***
	15000	0.20	9	6	28.3	90x236	LPH2V153MF236***
400 2G (450)	1000	0.20	99	69	3.8	51x80	LPH2G153MC080***
	1200	0.20	90	63	4.6	51x100	LPH2G122MC100***
	1500	0.20	74	52	5.6	51x100	LPH2G152MC120***
	1800	0.20	60	42	6.5	51x100	LPH2G182MC130***
	2200	0.20	56	39	6.9	64x96	LPH2G222MD096***
	2700	0.20	53	37	8.2	64x115	LPH2G272MD115***
	3300	0.20	39	27	9.6	64x130	LPH2G332MD130***
	3900	0.20	36	25	11.1	64x145	LPH2G392MD145***
		0.20	39	27	10.4	77x115	LPH2G392ME115***
	4700	0.20	27	19	13.4	64x145	LPH2G472MD155***
		0.20	29	20	12.1	77x130	LPH2G472ME130***
	5600	0.20	26	18	14.6	77x145	LPH2G562ME145***
		0.20	26	18	14.1	77x155	LPH2G562ME155***
	6800	0.20	21	15	16.5	90x157	LPH2G682MF157***
	8200	0.20	20	14	18.2	90x157	LPH2G822MF157***
	10000	0.20	16	11	21.7	90x196	LPH2G103MF196***
	12000	0.20	10	7	25.8	90x236	LPH2G123MF236***
450 2W (500)	1000	0.20	99	69	4.3	51x100	LPH2W102MC100***
	1200	0.20	93	65	5.1	51x100	LPH2W122MC120***
	1500	0.20	74	52	5.9	51x100	LPH2W152MC130***
	1800	0.20	60	42	6.3	64x96	LPH2W182MD096***
	2200	0.20	57	40	7.5	64x115	LPH2W222MD115***
	2700	0.20	59	41	8.6	64x130	LPH2W272MD130***
		0.20	57	40	8.8	77x115	LPH2W272ME115***
	3300	0.20	43	30	10.2	64x145	LPH2W332MD145***
		0.20	46	32	10.2	77x130	LPH2W332ME130***
	3900	0.20	39	27	12.3	77x145	LPH2W392ME145***
	4700	0.20	33	23	12.9	77x155	LPH2W472ME155***
	5600	0.20	29	20	15.4	77x195	LPH2W562ME195***
		0.20	31	22	14.9	90x157	LPH2W562MF157***
	6800	0.20	29	20	18.1	90x196	LPH2W682MF196***
	8200	0.20	24	17	19.9	90x196	LPH2W822MF196***
	10000	0.20	23	16	23.8	90x236	LPH2W103MF236***

*** Indicates mounting method, terminal diameter, internal teeth.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
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LGS series 105℃ 2000 hours

LGS longer life LGA longer life LGB
↑ 105℃ ↑ 105℃ ↑ 105℃
LPS longer life LPA longer life LPB



- Rohs requirements
- 105℃ 2000 hours series
- Used for switching power supply, servo, frequency converter, air conditioning, filter circuit, laser spot welding machine, consumer electronics, printed circuit board and other general industrial products

■ Product description

Item	Characteristic						
Operating temperature range	-40℃ ~ +105℃				-25℃ ~ +105℃		
Rated voltage(WV/V)	25V ~ 450V				460V ~ 500V		
Capacitance(CAP/C)	220 ~ 470000μF						
Tolerance(CAP/C)	±20% (25℃, 120Hz)						
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)						
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	25 ~ 35	50	63	80 ~ 100	160 ~ 200	250 ~ 500
	DF	See exact specifications				0.20	0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6						
	C(-25℃/C(+25℃)≥0.7						

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	4000h	>200000h	2000h	2000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

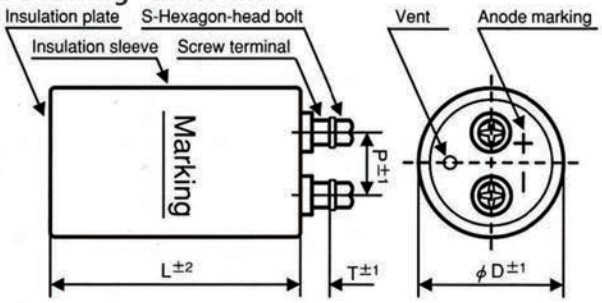
■ Ripple current correction factor

Temp.℃ / UR(V)	40	55	70	85	105
25 ~ 100	4.9	3.9	3.0	1.8	1.0
160 ~ 250	3.8	3.3	2.5	2.0	1.0
350 ~ 450	2.44	2.28	2.12	2.0	1.0

Freq. / UR(V)	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
25 ~ 100	0.95	1.00	1.04	1.10	1.15
160 ~ 250	0.90	1.00	1.08	1.15	1.20
350 ~ 450	0.80	1.00	1.18	1.35	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

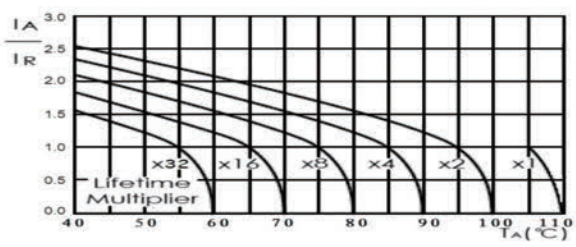
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 105°C
TA:Environment temp

■ LGS series : 105℃ 2000 hours screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
25 1E (32)	10000	0.35	50	25	2.9	36x50	LGS1E103MA050***
	15000	0.35	40	20	4.2	36x80	LGS1E153MA080***
	22000	0.40	26	13	5.1	36x80	LGS1E223MA080***
	33000	0.40	24	12	6.3	36x100	LGS1E333MA100***
	47000	0.40	22	11	2.4	51x80	LGS1E473MC080***
	68000	0.50	20	10	10.0	51x115	LGS1E683MC115***
	100000	0.60	18	9	11.3	64x90	LGS1E104MD090***
	150000	0.80	16	8	12.9	64x115	LGS1E154MD115***
	220000	1.00	14	7	14.8	77x115	LGS1E224ME115***
	330000	1.00	12	6	19.9	90x130	LGS1E334MF130***
	470000	1.00	10	5	27.8	90x170	LGS1E474MF170***
35 1V (44)	6800	0.30	50	25	2.6	36x50	LGS1V682MA050***
	10000	0.30	40	20	3.7	36x80	LGS1V103MA080***
	15000	0.30	26	13	4.5	36x80	LGS1V153MA080***
	22000	0.35	20	10	5.5	36x100	LGS1V223MA100***
	47000	0.45	18	9	8.1	51x100	LGS1V473MC100***
	68000	0.50	16	8	10.0	51x100	LGS1V683MC100***
	100000	0.60	14	7	12.1	64x115	LGS1V104MD115***
	150000	0.70	12	6	13.8	77x115	LGS1V154ME115***
	220000	0.70	10	5	17.7	90x130	LGS1V224MF130***
	330000	0.70	8	4	21.5	90x157	LGS1V334MF157***
50 1H (63)	3300	0.25	100	50	2.3	36x50	LGS1H332MA050***
	4700	0.25	72	36	3.3	36x50	LGS1H472MA050***
	6800	0.25	64	32	3.4	36x80	LGS1H682MA080***
	10000	0.25	44	22	4.1	36x80	LGS1H103MA080***
	15000	0.30	28	14	4.9	36x100	LGS1H153MA100***
	22000	0.35	20	10	5.9	51x80	LGS1H223MC080***
	33000	0.40	14	7	7.8	51x100	LGS1H333MC100***
	47000	0.40	12	6	9.5	64x90	LGS1H473MD090***
	68000	0.45	12	6	9.5	64x115	LGS1H683MD115***
	100000	0.50	10	5	11.7	77x115	LGS1H104ME115***
	150000	0.50	6	3	19.1	90x130	LGS1H154MF130***
63 1J (79)	6800	0.20	50	25	3.8	36x80	LGS1J682MA080***
	10000	0.25	40	20	4.5	36x100	LGS1J103MA100***
	15000	0.25	28	14	5.8	51x80	LGS1J153MC080***
	22000	0.30	20	10	6.8	51x100	LGS1J223MC100***
	33000	0.30	14	7	9.2	64x96	LGS1J333MD096***
	47000	0.35	12	6	10.9	64x115	LGS1J473MD115***
	68000	0.40	10	5	13.0	77x115	LGS1J683ME115***
	100000	0.40	8	4	17.3	90x130	LGS1J104MF130***
	120000	0.40	7	4	19.8	90x157	LGS1J124MF157***
	150000	0.40	7	4	23.6	90x190	LGS1J154MF190***
	180000	0.40	7	4	26.1	90x220	LGS1J184MF220***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
80 1K (100)	2200	0.20	114	57	2.2	36x50	LGS1K222MA050***
	3300	0.20	76	38	3.1	36x80	LGS1K332MA080***
	4700	0.20	54	27	3.6	36x80	LGS1K472MA080***
	6800	0.20	38	19	4.0	36x100	LGS1K682MA100***
	15000	0.25	22	11	6.2	51x100	LGS1K153MC100***
	22000	0.25	16	8	8.2	64x96	LGS1K223MD096***
	33000	0.30	14	7	9.7	77x105	LGS1K333ME105***
	47000	0.30	12	6	12.5	77x115	LGS1K473ME115***
	68000	0.30	10	5	16.5	90x130	LGS1K683MF130***
100 2A (125)	1000	0.20	130	65	1.4	36x50	LGS2A102MS050***
	1500	0.20	110	55	1.7	36x50	LGS2A152MA050***
	2200	0.20	76	38	2.6	36x80	LGS2A222MA080***
	3300	0.20	50	25	3.0	36x80	LGS2A332MA080***
	4700	0.20	42	21	3.9	36x100	LGS2A472MA100***
	6800	0.20	38	19	5.0	51x80	LGS2A682MC080***
	10000	0.20	26	13	6.5	51x100	LGS2A103MC100***
	15000	0.20	18	9	7.6	64x96	LGS2A153MD096***
	22000	0.20	14	7	9.7	77x105	LGS2A223ME105***
	33000	0.25	12	6	11.8	77x130	LGS2A333ME130***
	47000	0.25	10	5	15.1	90x130	LGS2A473MF130***
	56000	0.25	8	4	18.2	90x157	LGS2A563MF157***
160 2C (200)	470	0.20	530	265	1.1	36x50	LGS2C471MA050***
	680	0.20	372	186	1.2	36x50	LGS2C681MA050***
	1000	0.20	250	125	1.7	36x80	LGS2C102MA080***
	1500	0.20	170	85	2.0	36x80	LGS2C152MA080***
	2200	0.20	110	55	2.7	36x100	LGS2C222MA100***
	3300	0.20	76	38	3.5	51x80	LGS2C332MC080***
	4700	0.20	70	35	4.4	51x100	LGS2C472MC100***
	6800	0.20	50	25	5.9	64x96	LGS2C682MD096***
	10000	0.20	30	15	7.7	77x105	LGS2C103ME105***
	15000	0.20	22	11	10.3	77x130	LGS2C153ME130***
	22000	0.20	12	6	13.3	90x130	LGS2C223MF130***
200 2D (250)	330	0.20	750	375	0.9	36x50	LGS2D331MA050***
	470	0.20	524	262	1.1	36x50	LGS2D471MA050***
	680	0.20	360	180	1.2	36x50	LGS2D681MA050***
	1000	0.20	250	125	1.7	36x80	LGS2D102MA080***
	1500	0.20	150	75	2.2	36x100	LGS2D152MA100***
	2200	0.20	100	50	2.8	51x80	LGS2D222MC080***
	3300	0.20	72	36	3.7	51x100	LGS2D332MC100***
	4700	0.20	48	24	4.9	64x96	LGS2D472MD096***
	6800	0.20	32	16	6.3	64x115	LGS2D682MD115***
	10000	0.20	24	12	8.2	77x115	LGS2D103ME115***
	15000	0.20	20	8	11.1	90x130	LGS2D153MF130***

■ LGS series : 105℃ 2000 hours screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	330	0.20	320	160	0.9	36x50	LGS2E331MA050***
	470	0.20	240	120	1.1	36x50	LGS2E471MA050***
	680	0.20	170	85	1.5	36x80	LGS2E681MA080***
	1000	0.20	110	55	1.9	36x100	LGS2E102MA100***
	1500	0.20	80	40	2.3	51x80	LGS2E152MC080***
	3300	0.20	40	20	4.2	64x96	LGS2E332MD096***
	4700	0.20	30	15	5.4	64x115	LGS2E472MD115***
	6800	0.20	20	10	6.9	64x115	LGS2E682MD115***
	10000	0.20	16	8	9.4	77x155	LGS2E103ME155***
	15000	0.20	12	6	12.3	90x157	LGS2E153MF157***
400 2G (450)	1000	0.20	164	82	2.6	51x80	LGS2G102MC080***
	1200	0.20	140	70	3.1	51x100	LGS2G122MC100***
	1500	0.20	98	49	3.6	51x100	LGS2G152MC100***
	1800	0.20	78	39	4.1	51x100	LGS2G182MC100***
	2200	0.20	60	30	4.5	51x100	LGS2G222MC100***
		0.20	60	30	4.5	64x96	LGS2G182MD096***
	2700	0.20	44	22	5.3	64x115	LGS2G272MD115***
		0.20	44	22	5.3	64x115	LGS2G272MD115***
	3300	0.20	40	20	6.2	64x130	LGS2G332MD130***
		0.20	40	20	6.2	77x105	LGS2G332ME105***
	3900	0.20	36	18	7.2	64x145	LGS2G392MD145***
		0.20	36	18	6.8	77x115	LGS2G392ME115***
	4700	0.20	26	13	8.7	64x145	LGS2G472MD145***
		0.20	26	13	7.8	77x130	LGS2G472ME130***
	5600	0.20	24	12	9.6	77 x145	LGS2G562ME145***
		0.20	24	12	9.2	77x155	LGS2G562ME155***
	6800	0.20	22	11	10.9	77x155	LGS2G682ME155***
		0.20	22	11	10.7	90x130	LGS2G682MF130***
	8200	0.20	20	10	21.1	77x170	LGS2G822ME170***
		0.20	20	10	11.8	90x145	LGS2G822MF145***
	10000	0.20	18	9	14.3	77x180	LGS2G103ME180***
		0.20	18	9	14.2	90x157	LGS2G103MF157***
	12000	0.20	16	8	15.8	77x220	LGS2G123ME220***
		0.20	16	8	15.6	90x170	LGS2G123MF170***
	15000	0.20	14	7	18.5	90x200	LGS2G153MF200***
		0.20	14	7	18.3	101 x155	LGS2G153MG155***
	18000	0.20	12	6	21.1	90x236	LGS2G183MF236***
		0.20	12	6	19.5	101 x190	LGS2G183MG190***
	22000	0.20	12	6	22.8	90x250	LGS2G223MF250***
		0.20	12	6	20.7	101 x236	LGS2G223MG236***
	25000	0.20	10	5	22.9	101 x250	LGS2G253MG250***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	220	0.20	830	415	1.2	36x50	LGS2W221MA050***
	270	0.20	736	368	1.4	36x60	LGS2W271MA060***
	330	0.20	554	277	1.6	36x80	LGS2W331MA080***
	470	0.20	390	195	2.1	51x80	LGS2W471MC080***
	560	0.20	342	171	2.4	51x80	LGS2W561MC080***
	680	0.20	270	135	2.7	51x80	LGS2W681MC080***
	820	0.20	224	112	3.6	51x80	LGS2W821MC080***
	1000	0.20	180	90	4.2	51x100	LGS2W102MC100***
	1200	0.20	140	70	4.8	51x100	LGS2W122MC100***
	1500	0.20	108	54	5.7	51x100	LGS2W152MC100***
	1800	0.20	86	43	6.5	51x100	LGS2W182MC100***
	2200	0.20	66	33	7.4	64 x96	LGS2W222MD096***
		0.20	66	33	7.3	64 x120	LGS2W222MD120***
	2700	0.20	56	28	8.8	64 x130	LGS2W272MD130***
		0.20	58	29	8.6	77 x105	LGS2W272ME105***
	3300	0.20	44	22	10.3	64 x145	LGS2W332MD145***
		0.20	46	23	10.1	77 x115	LGS2W332ME115***
	4700	0.20	36	18	12.8	77 x145	LGS2W472ME145***
		0.20	38	19	12.6	77 x155	LGS2W472ME155***
	5600	0.20	32	16	15.5	77 x155	LGS2W562ME155***
		0.20	34	17	15.9	90 x130	LGS2W562MF130***
	6800	0.20	30	15	16.3	77 x170	LGS2W682ME170***
		0.20	32	16	16.1	90 x130	LGS2W682MF130***
	8200	0.20	26	13	18.3	77 x190	LGS2W822ME190***
		0.20	28	14	18.2	90 x157	LGS2W822MF157***
	10000	0.20	22	11	20.3	77 x190	LGS2W103ME190***
		0.20	24	12	20.1	90 x157	LGS2W103MF157***
	12000	0.20	20	10	23.5	90 x190	LGS2W123MF190***
		0.20	22	11	23.3	101 x155	LGS2W123MG155***
	15000	0.20	18	9	25.3	90 x220	LGS2W153MF220***
		0.20	20	10	25.1	101 x190	LGS2W153MG190***
	18000	0.20	18	8	26.6	90 x236	LGS2W183MF236***
		0.20	20	9	26.9	101 x236	LGS2W183MG236***
	22000	0.20	14	7	27.8	90 x250	LGS2W223MF250***
		0.20	14	7	27.8	101 x236	LGS2W223MG236***

*** Indicates mounting method, terminal diameter, internal teeth.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LGA series 105℃ 3000 hours

LGS	longer life	LGA	longer life	LGB
↑ 105℃		↑ 105℃		↑ 105℃
LPS	longer life	LPA	longer life	LPB



- Rohs requirements
- 105℃ 3000 hours series
- Used for switching power supply, servo, inverter, air conditioner, filter circuit, laser spot welder, consumer electronics, printed circuit board and other general industrial products

■ Product description

Item	Characteristic						
Operating temperature range	-40℃ ~ +105℃				-25℃ ~ +105℃		
Rated voltage(WV/V)	25V ~ 450V				460V ~ 500V		
Capacitance(CAP/C)	220 ~ 470000μF						
Tolerance(CAP/C)	±20% (25℃, 120Hz)						
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)						
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	25 ~ 35	50	63	80 ~ 100	160 ~ 200	250 ~ 500
	DF	See exact specifications				0.25	0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6						
	C(-25℃/C(+25℃)≥0.7						

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	6000h	>200000h	3000h	4000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

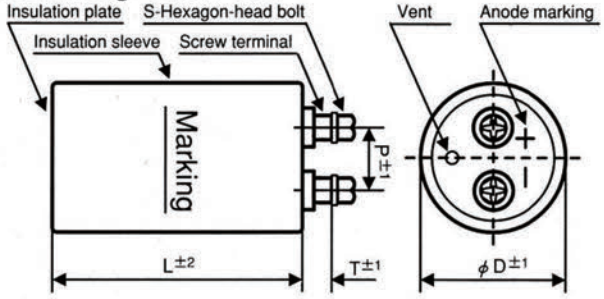
■ Ripple current correction factor

Temp.℃ / UR(V)	40	55	70	85	105
25 ~ 100	4.9	3.9	3.0	1.8	1.0
160 ~ 250	3.8	3.3	2.5	2.0	1.0
350 ~ 450	2.44	2.28	2.12	2.0	1.0

Freq. / UR(V)	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
25 ~ 100	0.95	1.00	1.04	1.10	1.15
160 ~ 250	0.90	1.00	1.08	1.15	1.20
350 ~ 450	0.80	1.00	1.18	1.35	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

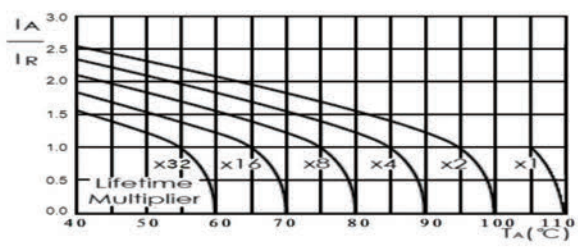
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 105°C
TA:Environment temp

■ LGA series :105℃ 3000 hours screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
25 1E (32)	10000	0.35	50	25	2.9	36x50	LGA1E103MA050***
	15000	0.35	40	20	4.2	36x80	LGA1E153MA080***
	22000	0.40	26	13	5.1	36x80	LGA1E223MA080***
	33000	0.40	24	12	6.3	36x100	LGA1E333MA100***
	47000	0.40	22	11	2.4	51x80	LGA1E473MC080***
	68000	0.50	20	10	10.0	51x115	LGA1E683MC115***
	100000	0.60	18	9	11.3	64x90	LGA1E104MD090***
	150000	0.80	16	8	12.9	64x115	LGA1E154MD115***
	220000	1.00	14	7	14.8	77x115	LGA1E224ME115***
	330000	1.00	12	6	19.9	90x130	LGA1E334MF130***
	470000	1.00	10	5	27.8	90x170	LGA1E474MF170***
35 1V (44)	6800	0.30	50	25	2.6	36x50	LGA1V682MA050***
	10000	0.30	40	20	3.7	36x80	LGA1V103MA080***
	15000	0.30	26	13	4.5	36x80	LGA1V153MA080***
	22000	0.35	20	10	5.5	36x100	LGA1V223MA100***
	47000	0.45	18	9	8.1	51x100	LGA1V473MC100***
	68000	0.50	16	8	10.0	51x100	LGA1V683MC100***
	100000	0.60	14	7	12.1	64x115	LGA1V104MD115***
	150000	0.70	12	6	13.8	77x115	LGA1V154ME115***
	220000	0.70	10	5	17.7	90x130	LGA1V224MF130***
	330000	0.70	8	4	21.5	90x157	LGA1V334MF157***
50 1H (63)	3300	0.25	100	50	2.3	36x50	LGA1H332MA050***
	4700	0.25	72	36	3.3	36x50	LGA1H472MA050***
	6800	0.25	64	32	3.4	36x80	LGA1H682MA080***
	10000	0.25	44	22	4.1	36x80	LGA1H103MA080***
	15000	0.30	28	14	4.9	36x100	LGA1H153MA100***
	22000	0.35	20	10	5.9	51x80	LGA1H223MC080***
	33000	0.40	14	7	7.8	51x100	LGA1H333MC100***
	47000	0.40	12	6	9.5	64x90	LGA1H473MD090***
	68000	0.45	12	6	9.5	64x115	LGA1H683MD115***
	100000	0.50	10	5	11.7	77x115	LGA1H104ME115***
	150000	0.50	6	3	19.1	90x130	LGA1H154MF130***
63 1J (79)	6800	0.20	50	25	3.8	36x80	LGA1J682MA080***
	10000	0.25	40	20	4.5	36x100	LGA1J103MA100***
	15000	0.25	28	14	5.8	51x80	LGA1J153MC080***
	22000	0.30	20	10	6.8	51x100	LGA1J223MC100***
	33000	0.30	14	7	9.2	64x96	LGA1J333MD096***
	47000	0.35	12	6	10.9	64x115	LGA1J473MD115***
	68000	0.40	10	5	13.0	77x115	LGA1J683ME115***
	100000	0.40	8	4	17.3	90x130	LGA1J104MF130***
	120000	0.40	7	4	19.8	90x157	LGA1J124MF157***
	150000	0.40	7	4	23.6	90x190	LGA1J154MF190***
	180000	0.40	7	4	26.1	90x220	LGA1J184MF220***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
80 1K (100)	2200	0.20	114	57	2.2	36x50	LGA1K222MA050***
	3300	0.20	76	38	3.1	36x80	LGA1K332MA080***
	4700	0.20	54	27	3.6	36x80	LGA1K472MA080***
	6800	0.20	38	19	4.0	36x100	LGA1K682MA100***
	15000	0.25	22	11	6.2	51x100	LGA1K153MC100***
	22000	0.25	16	8	8.2	64x96	LGA1K223MD096***
	33000	0.30	14	7	9.7	77x105	LGA1K333ME105***
	47000	0.30	12	6	12.5	77x115	LGA1K473ME115***
	68000	0.30	10	5	16.5	90x130	LGA1K683MF130***
100 2A (125)	1000	0.20	130	65	1.4	36x50	LGA2A102MS050***
	1500	0.20	110	55	1.7	36x50	LGA2A152MA050***
	2200	0.20	76	38	2.6	36x80	LGA2A222MA080***
	3300	0.20	50	25	3.0	36x80	LGA2A332MA080***
	4700	0.20	42	21	3.9	36x100	LGA2A472MA100***
	6800	0.20	38	19	5.0	51x80	LGA2A682MC080***
	10000	0.20	26	13	6.5	51x100	LGA2A103MC100***
	15000	0.20	18	9	7.6	64x96	LGA2A153MD096***
	22000	0.20	14	7	9.7	77x105	LGA2A223ME105***
	33000	0.25	12	6	11.8	77x130	LGA2A333ME130***
	47000	0.25	10	5	15.1	90x130	LGA2A473MF130***
	56000	0.25	8	4	18.2	90x157	LGA2A563MF157***
160 2C (200)	470	0.20	530	265	1.1	36x50	LGA2C471MA050***
	680	0.20	372	186	1.2	36x50	LGA2C681MA050***
	1000	0.20	250	125	1.7	36x80	LGA2C102MA080***
	1500	0.20	170	85	2.0	36x80	LGA2C152MA080***
	2200	0.20	110	55	2.7	36x100	LGA2C222MA100***
	3300	0.20	76	38	3.5	51x80	LGA2C332MC080***
	4700	0.20	70	35	4.4	51x100	LGA2C472MC100***
	6800	0.20	50	25	5.9	64x96	LGA2C682MD096***
	10000	0.20	30	15	7.7	77x105	LGA2C103ME105***
	15000	0.20	22	11	10.3	77x130	LGA2C153ME130***
	22000	0.20	12	6	13.3	90x130	LGA2C223MF130***
200 2D (250)	330	0.20	750	375	0.9	36x50	LGA2D331MA050***
	470	0.20	524	262	1.1	36x50	LGA2D471MA050***
	680	0.20	360	180	1.2	36x50	LGA2D681MA050***
	1000	0.20	250	125	1.7	36x80	LGA2D102MA080***
	1500	0.20	150	75	2.2	36x100	LGA2D152MA100***
	2200	0.20	100	50	2.8	51x80	LGA2D222MC080***
	3300	0.20	72	36	3.7	51x100	LGA2D332MC100***
	4700	0.20	48	24	4.9	64x96	LGA2D472MD096***
	6800	0.20	32	16	6.3	64x115	LGA2D682MD115***
	10000	0.20	24	12	8.2	77x115	LGA2D103ME115***
	15000	0.20	20	8	11.1	90x130	LGA2D153MF130***

■ LGA series :105℃ 3000 hours screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	330	0.20	320	160	0.9	36x50	LGA2E331MA050***
	470	0.20	240	120	1.1	36x50	LGA2E471MA050***
	680	0.20	170	85	1.5	36x80	LGA2E681MA080***
	1000	0.20	110	55	1.9	36x100	LGA2E102MA100***
	1500	0.20	80	40	2.3	51x80	LGA2E152MC080***
	3300	0.20	40	20	4.2	64x96	LGA2E332MD096***
	4700	0.20	30	15	5.4	64x115	LGA2E472MD115***
	6800	0.20	20	10	6.9	64x115	LGA2E682MD115***
	10000	0.20	16	8	9.4	77x155	LGA2E103ME155***
	15000	0.20	12	6	12.3	90x157	LGA2E153MF157***
400 2G (450)	1000	0.20	164	82	2.6	51x80	LGA2G102MC080***
	1200	0.20	140	70	3.1	51x100	LGA2G122MC100***
	1500	0.20	98	49	3.6	51x100	LGA2G152MC100***
	1800	0.20	78	39	4.1	51x100	LGA2G182MC100***
	2200	0.20	60	30	4.5	51x100	LGA2G222MC100***
		0.20	60	30	4.5	64x96	LGA2G182MD096***
	2700	0.20	44	22	5.3	64x115	LGA2G272MD115***
		0.20	44	22	5.3	64x115	LGA2G272MD115***
	3300	0.20	40	20	6.2	64x130	LGA2G332MD130***
		0.20	40	20	6.2	77x105	LGA2G332ME105***
	3900	0.20	36	18	7.2	64x145	LGA2G392MD145***
		0.20	36	18	6.8	77x115	LGA2G392ME115***
	4700	0.20	26	13	8.7	64x145	LGA2G472MD145***
		0.20	26	13	7.8	77x130	LGA2G472ME130***
	5600	0.20	24	12	9.6	77 x145	LGA2G562ME145***
		0.20	24	12	9.2	77x155	LGA2G562ME155***
	6800	0.20	22	11	10.9	77x155	LGA2G682ME155***
		0.20	22	11	10.7	90x130	LGA2G682MF130***
	8200	0.20	20	10	11.1	77x170	LGA2G822ME170***
		0.20	20	10	11.8	90x145	LGA2G822MF145***
	10000	0.20	18	9	14.3	77x180	LGA2G103ME180***
		0.20	18	9	14.2	90x157	LGA2G103MF157***
	12000	0.20	16	8	15.8	77x220	LGA2G123ME220***
		0.20	16	8	15.6	90x170	LGA2G123MF170***
	15000	0.20	14	7	18.5	90x200	LGA2G153MF200***
		0.20	14	7	18.3	101 x155	LGA2G153MG155***
	18000	0.20	12	6	21.1	90x236	LGA2G183MF236***
		0.20	12	6	19.5	101 x190	LGA2G183MG190***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	220	0.20	830	415	1.2	36x50	LGA2W221MA050***
	270	0.20	736	368	1.4	36x60	LGA2W271MA060***
	330	0.20	554	277	1.6	36x80	LGA2W331MA080***
	470	0.20	390	195	2.1	51x80	LGA2W471MC080***
	560	0.20	342	171	2.4	51x80	LGA2W561MC080***
	680	0.20	270	135	2.7	51x80	LGA2W681MC080***
	820	0.20	224	112	3.6	51x80	LGA2W821MC080***
	1000	0.20	180	90	4.2	51x100	LGA2W102MC100***
	1200	0.20	140	70	4.8	51x100	LGA2W122MC100***
	1500	0.20	108	54	5.7	51x100	LGA2W152MC100***
	1800	0.20	86	43	6.5	51x100	LGA2W182MC100***
	2200	0.20	66	33	7.4	64 x96	LGA2W222MD096***
		0.20	66	33	7.3	64 x120	LGA2W222MD120***
	2700	0.20	56	28	8.8	64 x130	LGA2W272MD130***
		0.20	58	29	8.6	77 x105	LGA2W272ME105***
	3300	0.20	44	22	10.3	64 x145	LGA2W332MD145***
		0.20	46	23	10.1	77 x115	LGA2W332ME115***
	4700	0.20	36	18	12.8	77 x145	LGA2W472ME145***
		0.20	38	19	12.6	77 x155	LGA2W472ME155***
	5600	0.20	32	16	15.5	77 x155	LGA2W562ME155***
		0.20	34	17	15.9	90 x130	LGA2W562MF130***
	6800	0.20	30	15	16.3	77 x170	LGA2W682ME170***
		0.20	32	16	16.1	90 x130	LGA2W682MF130***
	8200	0.20	26	13	18.3	77 x190	LGA2W822ME190***
		0.20	28	14	18.2	90 x157	LGA2W822MF157***
	10000	0.20	22	11	20.3	77 x190	LGA2W103ME190***
		0.20	24	12	20.1	90 x157	LGA2W103MF157***
	12000	0.20	20	10	23.5	90 x190	LGA2W123MF190***
		0.20	22	11	23.3	101 x155	LGA2W123MG155***
	15000	0.20	18	9	25.3	90 x220	LGA2W153MF220***
		0.20	20	10	25.1	101 x190	LGA2W153MG190***

*** Indicates mounting method, terminal diameter, internal teeth.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LGB series 105℃ 5000 hours

LGA	longer life	LGB	longer life	LGC
↑ 105℃		↑ 105℃		↑ 105℃
LPA	longer life	LPB	longer life	LPC



- Rohs requirements
- 105℃ 5000 hours series
- Used in switching power supply, inverter, rectifier, energy storage and other industrial products

■ Product description

Item	Characteristic						
Operating temperature range	-40℃ ~ +105℃				-25℃ ~ +105℃		
Rated voltage(WV/V)	25V ~ 450V				460V ~ 500V		
Capacitance(CAP/C)	220 ~ 470000μF						
Tolerance(CAP/C)	±20% (25℃, 120Hz)						
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)						
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	25 ~ 35	50	63	80 ~ 100	160 ~ 200	250 ~ 500
	DF	See exact specifications				0.25	0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6						
	C(-25℃/C(+25℃)≥0.7						

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	7000h	>200000h	5000h	5000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

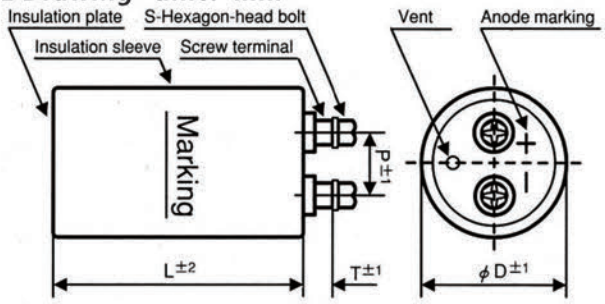
■ Ripple current correction factor

Temp.℃ / UR(V)	40	55	70	85	105
25 ~ 100	4.9	3.9	3.0	1.8	1.0
160 ~ 250	3.8	3.3	2.5	2.0	1.0
350 ~ 450	2.44	2.28	2.12	2.0	1.0

Freq. / UR(V)	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
25 ~ 100	0.95	1.00	1.04	1.10	1.15
160 ~ 250	0.90	1.00	1.08	1.15	1.20
350 ~ 450	0.80	1.00	1.18	1.35	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

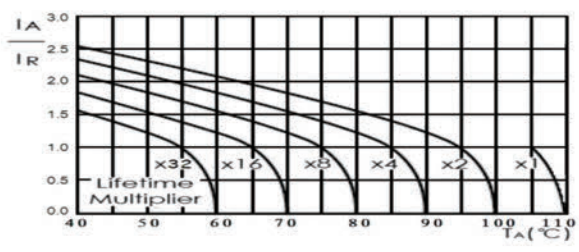
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 105°
TA:Environment temp

■ LGB series:105℃ 5000 hours screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
25 1E (32)	10000	0.35	50	25	2.9	36x50	LGB1E103MA050***
	15000	0.35	40	20	4.2	36x80	LGB1E153MA080***
	22000	0.40	26	13	5.1	36x80	LGB1E223MA080***
	33000	0.40	24	12	6.3	36x100	LGB1E333MA100***
	47000	0.40	22	11	2.4	51x80	LGB1E473MC080***
	68000	0.50	20	10	10.0	51x115	LGB1E683MC115***
	100000	0.60	18	9	11.3	64x90	LGB1E104MD090***
	150000	0.80	16	8	12.9	64x115	LGB1E154MD115***
	220000	1.00	14	7	14.8	77x115	LGB1E224ME115***
	330000	1.00	12	6	19.9	90x130	LGB1E334MF130***
	470000	1.00	10	5	27.8	90x170	LGB1E474MF170***
35 1V (44)	6800	0.30	50	25	2.6	36x50	LGB1V682MA050***
	10000	0.30	40	20	3.7	36x80	LGB1V103MA080***
	15000	0.30	26	13	4.5	36x80	LGB1V153MA080***
	22000	0.35	20	10	5.5	36x100	LGB1V223MA100***
	47000	0.45	18	9	8.1	51x100	LGB1V473MC100***
	68000	0.50	16	8	10.0	51x100	LGB1V683MC100***
	100000	0.60	14	7	12.1	64x115	LGB1V104MD115***
	150000	0.70	12	6	13.8	77x115	LGB1V154ME115***
	220000	0.70	10	5	17.7	90x130	LGB1V224MF130***
	330000	0.70	8	4	21.5	90x157	LGB1V334MF157***
50 1H (63)	3300	0.25	100	50	2.3	36x50	LGB1H332MA050***
	4700	0.25	72	36	3.3	36x50	LGB1H472MA050***
	6800	0.25	64	32	3.4	36x80	LGB1H682MA080***
	10000	0.25	44	22	4.1	36x80	LGB1H103MA080***
	15000	0.30	28	14	4.9	36x100	LGB1H153MA100***
	22000	0.35	20	10	5.9	51x80	LGB1H223MC080***
	33000	0.40	14	7	7.8	51x100	LGB1H333MC100***
	47000	0.40	12	6	9.5	64x90	LGB1H473MD090***
	68000	0.45	12	6	9.5	64x115	LGB1H683MD115***
	100000	0.50	10	5	11.7	77x115	LGB1H104ME115***
	150000	0.50	6	3	19.1	90x130	LGB1H154MF130***
63 1J (79)	6800	0.20	50	25	3.8	36x80	LGB1J682MA080***
	10000	0.25	40	20	4.5	36x100	LGB1J103MA100***
	15000	0.25	28	14	5.8	51x80	LGB1J153MC080***
	22000	0.30	20	10	6.8	51x100	LGB1J223MC100***
	33000	0.30	14	7	9.2	64x96	LGB1J333MD096***
	47000	0.35	12	6	10.9	64x115	LGB1J473MD115***
	68000	0.40	10	5	13.0	77x115	LGB1J683ME115***
	100000	0.40	8	4	17.3	90x130	LGB1J104MF130***
	120000	0.40	7	4	19.8	90x157	LGB1J124MF157***
	150000	0.40	7	4	23.6	90x190	LGB1J154MF190***
	180000	0.40	7	4	26.1	90x220	LGB1J184MF220***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
80 1K (100)	2200	0.20	114	57	2.2	36x50	LGB1K222MA050***
	3300	0.20	76	38	3.1	36x80	LGB1K332MA080***
	4700	0.20	54	27	3.6	36x80	LGB1K472MA080***
	6800	0.20	38	19	4.0	36x100	LGB1K682MA100***
	15000	0.25	22	11	6.2	51x100	LGB1K153MC100***
	22000	0.25	16	8	8.2	64x96	LGB1K223MD096***
	33000	0.30	14	7	9.7	77x105	LGB1K333ME105***
	47000	0.30	12	6	12.5	77x115	LGB1K473ME115***
	68000	0.30	10	5	16.5	90x130	LGB1K683MF130***
100 2A (125)	1000	0.20	130	65	1.4	36x50	LGB2A102MS050***
	1500	0.20	110	55	1.7	36x50	LGB2A152MA050***
	2200	0.20	76	38	2.6	36x80	LGB2A222MA080***
	3300	0.20	50	25	3.0	36x80	LGB2A332MA080***
	4700	0.20	42	21	3.9	36x100	LGB2A472MA100***
	6800	0.20	38	19	5.0	51x80	LGB2A682MC080***
	10000	0.20	26	13	6.5	51x100	LGB2A103MC100***
	15000	0.20	18	9	7.6	64x96	LGB2A153MD096***
	22000	0.20	14	7	9.7	77x105	LGB2A223ME105***
	33000	0.25	12	6	11.8	77x130	LGB2A333ME130***
	47000	0.25	10	5	15.1	90x130	LGB2A473MF130***
	56000	0.25	8	4	18.2	90x157	LGB2A563MF157***
160 2C (200)	470	0.20	530	265	1.1	36x50	LGB2C471MA050***
	680	0.20	372	186	1.2	36x50	LGB2C681MA050***
	1000	0.20	250	125	1.7	36x80	LGB2C102MA080***
	1500	0.20	170	85	2.0	36x80	LGB2C152MA080***
	2200	0.20	110	55	2.7	36x100	LGB2C222MA100***
	3300	0.20	76	38	3.5	51x80	LGB2C332MC080***
	4700	0.20	70	35	4.4	51x100	LGB2C472MC100***
	6800	0.20	50	25	5.9	64x96	LGB2C682MD096***
	10000	0.20	30	15	7.7	77x105	LGB2C103ME105***
	15000	0.20	22	11	10.3	77x130	LGB2C153ME130***
	22000	0.20	12	6	13.3	90x130	LGB2C223MF130***
200 2D (250)	330	0.20	750	375	0.9	36x50	LGB2D331MA050***
	470	0.20	524	262	1.1	36x50	LGB2D471MA050***
	680	0.20	360	180	1.2	36x50	LGB2D681MA050***
	1000	0.20	250	125	1.7	36x80	LGB2D102MA080***
	1500	0.20	150	75	2.2	36x100	LGB2D152MA100***
	2200	0.20	100	50	2.8	51x80	LGB2D222MC080***
	3300	0.20	72	36	3.7	51x100	LGB2D332MC100***
	4700	0.20	48	24	4.9	64x96	LGB2D472MD096***
	6800	0.20	32	16	6.3	64x115	LGB2D682MD115***
	10000	0.20	24	12	8.2	77x115	LGB2D103ME115***
	15000	0.20	20	8	11.1	90x130	LGB2D153MF130***

■ LGB series:105℃ 5000 hours screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	330	0.20	320	160	0.9	36x50	LGB2E331MA050***
	470	0.20	240	120	1.1	36x50	LGB2E471MA050***
	680	0.20	170	85	1.5	36x80	LGB2E681MA080***
	1000	0.20	110	55	1.9	36x100	LGB2E102MA100***
	1500	0.20	80	40	2.3	51x80	LGB2E152MC080***
	3300	0.20	40	20	4.2	64x96	LGB2E332MD096***
	4700	0.20	30	15	5.4	64x115	LGB2E472MD115***
	6800	0.20	20	10	6.9	64x115	LGB2E682MD115***
	10000	0.20	16	8	9.4	77x155	LGB2E103ME155***
	15000	0.20	12	6	12.3	90x157	LGB2E153MF157***
400 2G (450)	1000	0.20	164	82	2.6	51x80	LGB2G102MC080***
	1200	0.20	140	70	3.1	51x100	LGB2G122MC100***
	1500	0.20	98	49	3.6	51x100	LGB2G152MC100***
	1800	0.20	78	39	4.1	51x100	LGB2G182MC100***
	2200	0.20	60	30	4.5	51x100	LGB2G222MC100***
		0.20	60	30	4.5	64x96	LGB2G182MD096***
	2700	0.20	44	22	5.3	64x115	LGB2G272MD115***
		0.20	44	22	5.3	64x115	LGB2G272MD115***
	3300	0.20	40	20	6.2	64x130	LGB2G332MD130***
		0.20	40	20	6.2	77x105	LGB2G332ME105***
	3900	0.20	36	18	7.2	64x145	LGB2G392MD145***
		0.20	36	18	6.8	77x115	LGB2G392ME115***
	4700	0.20	26	13	8.7	64x145	LGB2G472MD145***
		0.20	26	13	7.8	77x130	LGB2G472ME130***
	5600	0.20	24	12	9.6	77 x145	LGB2G562ME145***
		0.20	24	12	9.2	77x155	LGB2G562ME155***
	6800	0.20	22	11	10.9	77x155	LGB2G682ME155***
		0.20	22	11	10.7	90x130	LGB2G682MF130***
	8200	0.20	20	10	11.1	77x170	LGB2G822ME170***
		0.20	20	10	11.8	90x145	LGB2G822MF145***
	10000	0.20	18	9	14.3	77x180	LGB2G103ME180***
		0.20	18	9	14.2	90x157	LGB2G103MF157***
	12000	0.20	16	8	15.8	77x220	LGB2G123ME220***
		0.20	16	8	15.6	90x170	LGB2G123MF170***
	15000	0.20	14	7	18.5	90x200	LGB2G153MF200***
		0.20	14	7	18.3	101 x155	LGB2G153MG155***
	18000	0.20	12	6	21.1	90x236	LGB2G183MF236***
		0.20	12	6	19.5	101 x190	LGB2G183MG190***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	220	0.20	830	415	1.2	36x50	LGB2W221MA050***
	270	0.20	736	368	1.4	36x60	LGB2W271MA060***
	330	0.20	554	277	1.6	36x80	LGB2W331MA080***
	470	0.20	390	195	2.1	51x80	LGB2W471MC080***
	560	0.20	342	171	2.4	51x80	LGB2W561MC080***
	680	0.20	270	135	2.7	51x80	LGB2W681MC080***
	820	0.20	224	112	3.6	51x80	LGB2W821MC080***
	1000	0.20	180	90	4.2	51x100	LGB2W102MC100***
	1200	0.20	140	70	4.8	51x100	LGB2W122MC100***
	1500	0.20	108	54	5.7	51x100	LGB2W152MC100***
	1800	0.20	86	43	6.5	51x100	LGB2W182MC100***
	2200	0.20	66	33	7.4	64 x96	LGB2W222MD096***
		0.20	66	33	7.3	64 x120	LGB2W222MD120***
	2700	0.20	56	28	8.8	64 x130	LGB2W272MD130***
		0.20	58	29	8.6	77 x105	LGB2W272ME105***
	3300	0.20	44	22	10.3	64 x145	LGB2W332MD145***
		0.20	46	23	10.1	77 x115	LGB2W332ME115***
	4700	0.20	36	18	12.8	77 x145	LGB2W472ME145***
		0.20	38	19	12.6	77 x155	LGB2W472ME155***
	5600	0.20	32	16	15.5	77 x155	LGB2W562ME155***
		0.20	34	17	15.9	90 x130	LGB2W562MF130***
	6800	0.20	30	15	16.3	77 x170	LGB2W682ME170***
		0.20	32	16	16.1	90 x130	LGB2W682MF130***
	8200	0.20	26	13	18.3	77 x190	LGB2W822ME190***
		0.20	28	14	18.2	90 x157	LGB2W822MF157***
	10000	0.20	22	11	20.3	77 x190	LGB2W103ME190***
		0.20	24	12	20.1	90 x157	LGB2W103MF157***
	12000	0.20	20	10	23.5	90 x190	LGB2W123MF190***
		0.20	22	11	23.3	101 x155	LGB2W123MG155***
	15000	0.20	18	9	25.3	90 x220	LGB2W153MF220***
		0.20	20	10	25.1	101 x190	LGB2W153MG190***

*** Indicates mounting method, terminal diameter, internal teeth.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LGC series 105℃ 8000 hours

LGB longer life LGC longer life LGD
↑ 105℃ ↑ 105℃ ↑ 105℃
LPB longer life LPC longer life LPD



- Rohs requirements
- 105℃ 8000 hours series
- Used in switching power supply, inverters, rectifiers, energy storage and other industrial products

■ Product description

Item	Characteristic						
Operating temperature range	-40℃ ~ +105℃				-25℃ ~ +105℃		
Rated voltage(WV/V)	25V ~ 450V				460V ~ 500V		
Capacitance(CAP/C)	220 ~ 470000μF						
Tolerance(CAP/C)	±20% (25℃, 120Hz)						
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)						
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	25 ~ 35	50	63	80 ~ 100	160 ~ 200	250 ~ 500
	DF	See exact specifications				0.25	0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6						
	C(-25℃/C(+25℃)≥0.7						

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	8000h	>200000h	8000h	8000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

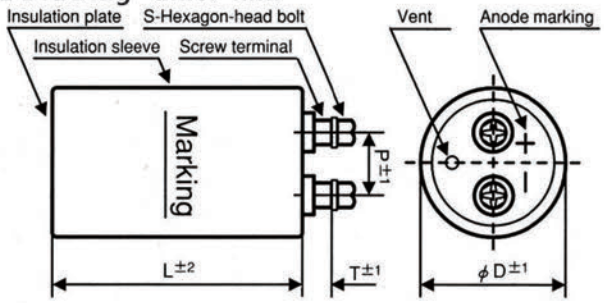
■ Ripple current correction factor

UR(V) \ Temp.℃	40	55	70	85	105
25 ~ 100	4.9	3.9	3.0	1.8	1.0
160 ~ 250	3.8	3.3	2.5	2.0	1.0
350 ~ 450	2.44	2.28	2.12	2.0	1.0

UR(V) \ Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
25 ~ 100	0.95	1.00	1.04	1.10	1.15
160 ~ 250	0.90	1.00	1.08	1.15	1.20
350 ~ 450	0.80	1.00	1.18	1.35	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

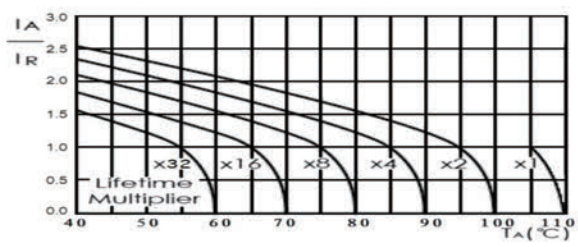
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 105°C
TA:Environment temp

■ LGC series:105℃ 8000 hours screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
25 1E (32)	10000	0.35	50	25	2.9	36x50	LGC1E103MA050***
	15000	0.35	40	20	4.2	36x80	LGC1E153MA080***
	22000	0.40	26	13	5.1	36x80	LGC1E223MA080***
	33000	0.40	24	12	6.3	36x100	LGC1E333MA100***
	47000	0.40	22	11	2.4	51x80	LGC1E473MC080***
	68000	0.50	20	10	10.0	51x115	LGC1E683MC115***
	100000	0.60	18	9	11.3	64x90	LGC1E104MD090***
	150000	0.80	16	8	12.9	64x115	LGC1E154MD115***
	220000	1.00	14	7	14.8	77x115	LGC1E224ME115***
	330000	1.00	12	6	19.9	90x130	LGC1E334MF130***
	470000	1.00	10	5	27.8	90x170	LGC1E474MF170***
35 1V (44)	6800	0.30	50	25	2.6	36x50	LGC1V682MA050***
	10000	0.30	40	20	3.7	36x80	LGC1V103MA080***
	15000	0.30	26	13	4.5	36x80	LGC1V153MA080***
	22000	0.35	20	10	5.5	36x100	LGC1V223MA100***
	47000	0.45	18	9	8.1	51x100	LGC1V473MC100***
	68000	0.50	16	8	10.0	51x100	LGC1V683MC100***
	100000	0.60	14	7	12.1	64x115	LGC1V104MD115***
	150000	0.70	12	6	13.8	77x115	LGC1V154ME115***
	220000	0.70	10	5	17.7	90x130	LGC1V224MF130***
	330000	0.70	8	4	21.5	90x157	LGC1V334MF157***
50 1H (63)	3300	0.25	100	50	2.3	36x50	LGC1H332MA050***
	4700	0.25	72	36	3.3	36x50	LGC1H472MA050***
	6800	0.25	64	32	3.4	36x80	LGC1H682MA080***
	10000	0.25	44	22	4.1	36x80	LGC1H103MA080***
	15000	0.30	28	14	4.9	36x100	LGC1H153MA100***
	22000	0.35	20	10	5.9	51x80	LGC1H223MC080***
	33000	0.40	14	7	7.8	51x100	LGC1H333MC100***
	47000	0.40	12	6	9.5	64x90	LGC1H473MD090***
	68000	0.45	12	6	9.5	64x115	LGC1H683MD115***
	100000	0.50	10	5	11.7	77x115	LGC1H104ME115***
	150000	0.50	6	3	19.1	90x130	LGC1H154MF130***
63 1J (79)	6800	0.20	50	25	3.8	36x80	LGC1J682MA080***
	10000	0.25	40	20	4.5	36x100	LGC1J103MA100***
	15000	0.25	28	14	5.8	51x80	LGC1J153MC080***
	22000	0.30	20	10	6.8	51x100	LGC1J223MC100***
	33000	0.30	14	7	9.2	64x96	LGC1J333MD096***
	47000	0.35	12	6	10.9	64x115	LGC1J473MD115***
	68000	0.40	10	5	13.0	77x115	LGC1J683ME115***
	100000	0.40	8	4	17.3	90x130	LGC1J104MF130***
	120000	0.40	7	4	19.8	90x157	LGC1J124MF157***
	150000	0.40	7	4	23.6	90x190	LGC1J154MF190***
	180000	0.40	7	4	26.1	90x220	LGC1J184MF220***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
80 1K (100)	2200	0.20	114	57	2.2	36x50	LGC1K222MA050***
	3300	0.20	76	38	3.1	36x80	LGC1K332MA080***
	4700	0.20	54	27	3.6	36x80	LGC1K472MA080***
	6800	0.20	38	19	4.0	36x100	LGC1K682MA100***
	15000	0.25	22	11	6.2	51x100	LGC1K153MC100***
	22000	0.25	16	8	8.2	64x96	LGC1K223MD096***
	33000	0.30	14	7	9.7	77x105	LGC1K333ME105***
	47000	0.30	12	6	12.5	77x115	LGC1K473ME115***
	68000	0.30	10	5	16.5	90x130	LGC1K683MF130***
100 2A (125)	1000	0.20	130	65	1.4	36x50	LGC2A102MS050***
	1500	0.20	110	55	1.7	36x50	LGC2A152MA050***
	2200	0.20	76	38	2.6	36x80	LGC2A222MA080***
	3300	0.20	50	25	3.0	36x80	LGC2A332MA080***
	4700	0.20	42	21	3.9	36x100	LGC2A472MA100***
	6800	0.20	38	19	5.0	51x80	LGC2A682MC080***
	10000	0.20	26	13	6.5	51x100	LGC2A103MC100***
	15000	0.20	18	9	7.6	64x96	LGC2A153MD096***
	22000	0.20	14	7	9.7	77x105	LGC2A223ME105***
	33000	0.25	12	6	11.8	77x130	LGC2A333ME130***
	47000	0.25	10	5	15.1	90x130	LGC2A473MF130***
	56000	0.25	8	4	18.2	90x157	LGC2A563MF157***
160 2C (200)	470	0.20	530	265	1.1	36x50	LGC2C471MA050***
	680	0.20	372	186	1.2	36x50	LGC2C681MA050***
	1000	0.20	250	125	1.7	36x80	LGC2C102MA080***
	1500	0.20	170	85	2.0	36x80	LGC2C152MA080***
	2200	0.20	110	55	2.7	36x100	LGC2C222MA100***
	3300	0.20	76	38	3.5	51x80	LGC2C332MC080***
	4700	0.20	70	35	4.4	51x100	LGC2C472MC100***
	6800	0.20	50	25	5.9	64x96	LGC2C682MD096***
	10000	0.20	30	15	7.7	77x105	LGC2C103ME105***
	15000	0.20	22	11	10.3	77x130	LGC2C153ME130***
	22000	0.20	12	6	13.3	90x130	LGC2C223MF130***
200 2D (250)	330	0.20	750	375	0.9	36x50	LGC2D331MA050***
	470	0.20	524	262	1.1	36x50	LGC2D471MA050***
	680	0.20	360	180	1.2	36x50	LGC2D681MA050***
	1000	0.20	250	125	1.7	36x80	LGC2D102MA080***
	1500	0.20	150	75	2.2	36x100	LGC2D152MA100***
	2200	0.20	100	50	2.8	51x80	LGC2D222MC080***
	3300	0.20	72	36	3.7	51x100	LGC2D332MC100***
	4700	0.20	48	24	4.9	64x96	LGC2D472MD096***
	6800	0.20	32	16	6.3	64x115	LGC2D682MD115***
	10000	0.20	24	12	8.2	77x115	LGC2D103ME115***
	15000	0.20	20	8	11.1	90x130	LGC2D153MF130***

■ LGC series:105℃ 8000 hours screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	330	0.20	320	160	0.9	36x50	LGC2E331MA050***
	470	0.20	240	120	1.1	36x50	LGC2E471MA050***
	680	0.20	170	85	1.5	36x80	LGC2E681MA080***
	1000	0.20	110	55	1.9	36x100	LGC2E102MA100***
	1500	0.20	80	40	2.3	51x80	LGC2E152MC080***
	3300	0.20	40	20	4.2	64x96	LGC2E332MD096***
	4700	0.20	30	15	5.4	64x115	LGC2E472MD115***
	6800	0.20	20	10	6.9	64x115	LGC2E682MD115***
	10000	0.20	16	8	9.4	77x155	LGC2E103ME155***
	15000	0.20	12	6	12.3	90x157	LGC2E153MF157***
400 2G (450)	1000	0.20	164	82	2.6	51x80	LGC2G102MC080***
	1200	0.20	140	70	3.1	51x100	LGC2G122MC100***
	1500	0.20	98	49	3.6	51x100	LGC2G152MC100***
	1800	0.20	78	39	4.1	51x100	LGC2G182MC100***
	2200	0.20	60	30	4.5	51x100	LGC2G222MC100***
		0.20	60	30	4.5	64x96	LGC2G182MD096***
	2700	0.20	44	22	5.3	64x115	LGC2G272MD115***
		0.20	44	22	5.3	64x115	LGC2G272MD115***
	3300	0.20	40	20	6.2	64x130	LGC2G332MD130***
		0.20	40	20	6.2	77x105	LGC2G332ME105***
	3900	0.20	36	18	7.2	64x145	LGC2G392MD145***
		0.20	36	18	6.8	77x115	LGC2G392ME115***
	4700	0.20	26	13	8.7	64x145	LGC2G472MD145***
		0.20	26	13	7.8	77x130	LGC2G472ME130***
	5600	0.20	24	12	9.6	77 x145	LGC2G562ME145***
		0.20	24	12	9.2	77x155	LGC2G562ME155***
	6800	0.20	22	11	10.9	77x155	LGC2G682ME155***
		0.20	22	11	10.7	90x130	LGC2G682MF130***
	8200	0.20	20	10	21.1	77x170	LGC2G822ME170***
		0.20	20	10	11.8	90x145	LGC2G822MF145***
	10000	0.20	18	9	14.3	77x180	LGC2G103ME180***
		0.20	18	9	14.2	90x157	LGC2G103MF157***
	12000	0.20	16	8	15.8	77x220	LGC2G123ME220***
		0.20	16	8	15.6	90x170	LGC2G123MF170***
	15000	0.20	14	7	18.5	90x200	LGC2G153MF200***
		0.20	14	7	18.3	101 x155	LGC2G153MG155***
	18000	0.20	12	6	21.1	90x236	LGC2G183MF236***
		0.20	12	6	19.5	101 x190	LGC2G183MG190***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	220	0.20	830	415	1.2	36x50	LGC2W221MA050***
	270	0.20	736	368	1.4	36x60	LGC2W271MA060***
	330	0.20	554	277	1.6	36x80	LGC2W331MA080***
	470	0.20	390	195	2.1	51x80	LGC2W471MC080***
	560	0.20	342	171	2.4	51x80	LGC2W561MC080***
	680	0.20	270	135	2.7	51x80	LGC2W681MC080***
	820	0.20	224	112	3.6	51x80	LGC2W821MC080***
	1000	0.20	180	90	4.2	51x100	LGC2W102MC100***
	1200	0.20	140	70	4.8	51x100	LGC2W122MC100***
	1500	0.20	108	54	5.7	51x100	LGC2W152MC100***
	1800	0.20	86	43	6.5	51x100	LGC2W182MC100***
	2200	0.20	66	33	7.4	64 x96	LGC2W222MD096***
		0.20	66	33	7.3	64 x120	LGC2W222MD120***
	2700	0.20	56	28	8.8	64 x130	LGC2W272MD130***
		0.20	58	29	8.6	77 x105	LGC2W272ME105***
	3300	0.20	44	22	10.3	64 x145	LGC2W332MD145***
		0.20	46	23	10.1	77 x115	LGC2W332ME115***
	4700	0.20	36	18	12.8	77 x145	LGC2W472ME145***
		0.20	38	19	12.6	77 x155	LGC2W472ME155***
	5600	0.20	32	16	15.5	77 x155	LGC2W562ME155***
		0.20	34	17	15.9	90 x130	LGC2W562MF130***
	6800	0.20	30	15	16.3	77 x170	LGC2W682ME170***
		0.20	32	16	16.1	90 x130	LGC2W682MF130***
	8200	0.20	26	13	18.3	77 x190	LGC2W822ME190***
		0.20	28	14	18.2	90 x157	LGC2W822MF157***
	10000	0.20	22	11	20.3	77 x190	LGC2W103ME190***
		0.20	24	12	20.1	90 x157	LGC2W103MF157***
	12000	0.20	20	10	23.5	90 x190	LGC2W123MF190***
		0.20	22	11	23.3	101 x155	LGC2W123MG155***
	15000	0.20	18	9	25.3	90 x220	LGC2W153MF220***
		0.20	20	10	25.1	101 x190	LGC2W153MG190***

*** Indicates mounting method, terminal diameter, internal teeth.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

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LGD series 105℃ 10000 hours

LGC longer life LGD longer life LGE
↑ 105℃ ↑ 105℃ ↑ 105℃
LPC longer life LPD longer life LPE

- Rohs requirements
- 105℃ 10000 hours series
- Used in switching power supply, inverters, rectifiers, energy storage and other industrial products



■ Product description

Item	Characteristic						
Operating temperature range	-40℃ ~ +105℃						
Rated voltage(WV/V)	25V ~ 450V						
Capacitance(CAP/C)	220 ~ 470000μF						
Tolerance(CAP/C)	±20% (25℃, 120Hz)						
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)						
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	25 ~ 35	50	63	80 ~ 100	160 ~ 200	250 ~ 500
	See exact specifications					0.25	0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6						
	C(-25℃/C(+25℃)≥0.7						

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	12000h	>200000h	10000h	10000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

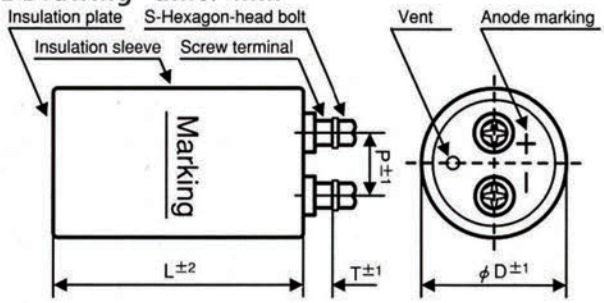
■ Ripple current correction factor

Temp.℃ / UR(V)	40	55	70	85	105
25 ~ 100	4.9	3.9	3.0	1.8	1.0
160 ~ 250	3.8	3.3	2.5	2.0	1.0
350 ~ 450	2.44	2.28	2.12	2.0	1.0

Freq. / UR(V)	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
25 ~ 100	0.95	1.00	1.04	1.10	1.15
160 ~ 250	0.90	1.00	1.08	1.15	1.20
350 ~ 450	0.80	1.00	1.18	1.35	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

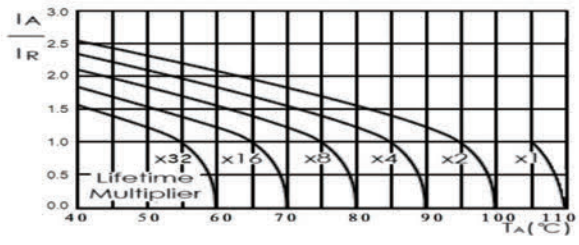
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 105°C
TA:Environment temp

■ LGD series:105℃ 10000 hours screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
25 1E (32)	10000	0.35	50	25	2.9	36x50	LGD1E103MA050***
	15000	0.35	40	20	4.2	36x80	LGD1E153MA080***
	22000	0.40	26	13	5.1	36x80	LGD1E223MA080***
	33000	0.40	24	12	6.3	36x100	LGD1E333MA100***
	47000	0.40	22	11	2.4	51x80	LGD1E473MC080***
	68000	0.50	20	10	10.0	51x115	LGD1E683MC115***
	100000	0.60	18	9	11.3	64x90	LGD1E104MD090***
	150000	0.80	16	8	12.9	64x115	LGD1E154MD115***
	220000	1.00	14	7	14.8	77x115	LGD1E224ME115***
	330000	1.00	12	6	19.9	90x130	LGD1E334MF130***
	470000	1.00	10	5	27.8	90x170	LGD1E474MF170***
35 1V (44)	6800	0.30	50	25	2.6	36x50	LGD1V682MA050***
	10000	0.30	40	20	3.7	36x80	LGD1V103MA080***
	15000	0.30	26	13	4.5	36x80	LGD1V153MA080***
	22000	0.35	20	10	5.5	36x100	LGD1V223MA100***
	47000	0.45	18	9	8.1	51x100	LGD1V473MC100***
	68000	0.50	16	8	10.0	51x100	LGD1V683MC100***
	100000	0.60	14	7	12.1	64x115	LGD1V104MD115***
	150000	0.70	12	6	13.8	77x115	LGD1V154ME115***
	220000	0.70	10	5	17.7	90x130	LGD1V224MF130***
	330000	0.70	8	4	21.5	90x157	LGD1V334MF157***
50 1H (63)	3300	0.25	100	50	2.3	36x50	LGD1H332MA050***
	4700	0.25	72	36	3.3	36x50	LGD1H472MA050***
	6800	0.25	64	32	3.4	36x80	LGD1H682MA080***
	10000	0.25	44	22	4.1	36x80	LGD1H103MA080***
	15000	0.30	28	14	4.9	36x100	LGD1H153MA100***
	22000	0.35	20	10	5.9	51x80	LGD1H223MC080***
	33000	0.40	14	7	7.8	51x100	LGD1H333MC100***
	47000	0.40	12	6	9.5	64x90	LGD1H473MD090***
	68000	0.45	12	6	9.5	64x115	LGD1H683MD115***
	100000	0.50	10	5	11.7	77x115	LGD1H104ME115***
	150000	0.50	6	3	19.1	90x130	LGD1H154MF130***
63 1J (79)	6800	0.20	50	25	3.8	36x80	LGD1J682MA080***
	10000	0.25	40	20	4.5	36x100	LGD1J103MA100***
	15000	0.25	28	14	5.8	51x80	LGD1J153MC080***
	22000	0.30	20	10	6.8	51x100	LGD1J223MC100***
	33000	0.30	14	7	9.2	64x96	LGD1J333MD096***
	47000	0.35	12	6	10.9	64x115	LGD1J473MD115***
	68000	0.40	10	5	13.0	77x115	LGD1J683ME115***
	100000	0.40	8	4	17.3	90x130	LGD1J104MF130***
	120000	0.40	7	4	19.8	90x157	LGD1J124MF157***
	150000	0.40	7	4	23.6	90x190	LGD1J154MF190***
	180000	0.40	7	4	26.1	90x220	LGD1J184MF220***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
80 1K (100)	2200	0.20	114	57	2.2	36x50	LGD1K222MA050***
	3300	0.20	76	38	3.1	36x80	LGD1K332MA080***
	4700	0.20	54	27	3.6	36x80	LGD1K472MA080***
	6800	0.20	38	19	4.0	36x100	LGD1K682MA100***
	15000	0.25	22	11	6.2	51x100	LGD1K153MC100***
	22000	0.25	16	8	8.2	64x96	LGD1K223MD096***
	33000	0.30	14	7	9.7	77x105	LGD1K333ME105***
	47000	0.30	12	6	12.5	77x115	LGD1K473ME115***
	68000	0.30	10	5	16.5	90x130	LGD1K683MF130***
100 2A (125)	1000	0.20	130	65	1.4	35x50	LGD2A102MS050***
	1500	0.20	110	55	1.7	36x50	LGD2A152MA050***
	2200	0.20	76	38	2.6	36x80	LGD2A222MA080***
	3300	0.20	50	25	3.0	36x80	LGD2A332MA080***
	4700	0.20	42	21	3.9	36x100	LGD2A472MA100***
	6800	0.20	38	19	5.0	51x80	LGD2A682MC080***
	10000	0.20	26	13	6.5	51x100	LGD2A103MC100***
	15000	0.20	18	9	7.6	64x96	LGD2A153MD096***
	22000	0.20	14	7	9.7	77x105	LGD2A223ME105***
	33000	0.25	12	6	11.8	77x130	LGD2A333ME130***
	47000	0.25	10	5	15.1	90x130	LGD2A473MF130***
	56000	0.25	8	4	18.2	90x157	LGD2A563MF157***
160 2C (200)	470	0.20	530	265	1.1	36x50	LGD2C471MA050***
	680	0.20	372	186	1.2	36x50	LGD2C681MA050***
	1000	0.20	250	125	1.7	36x80	LGD2C102MA080***
	1500	0.20	170	85	2.0	36x80	LGD2C152MA080***
	2200	0.20	110	55	2.7	36x100	LGD2C222MA100***
	3300	0.20	76	38	3.5	51x80	LGD2C332MC080***
	4700	0.20	70	35	4.4	51x100	LGD2C472MC100***
	6800	0.20	50	25	5.9	64x96	LGD2C682MD096***
	10000	0.20	30	15	7.7	77x105	LGD2C103ME105***
	15000	0.20	22	11	10.3	77x130	LGD2C153ME130***
	22000	0.20	12	6	13.3	90x130	LGD2C223MF130***
200 2D (250)	330	0.20	750	375	0.9	36x50	LGD2D331MA050***
	470	0.20	524	262	1.1	36x50	LGD2D471MA050***
	680	0.20	360	180	1.2	36x50	LGD2D681MA050***
	1000	0.20	250	125	1.7	36x80	LGD2D102MA080***
	1500	0.20	150	75	2.2	36x100	LGD2D152MA100***
	2200	0.20	100	50	2.8	51x80	LGD2D222MC080***
	3300	0.20	72	36	3.7	51x100	LGD2D332MC100***
	4700	0.20	48	24	4.9	64x96	LGD2D472MD096***
	6800	0.20	32	16	6.3	64x115	LGD2D682MD115***
	10000	0.20	24	12	8.2	77x115	LGD2D103ME115***
	15000	0.20	20	8	11.1	90x130	LGD2D153MF130***

■ LGD series:105℃ 10000 hours screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	330	0.20	320	160	0.9	36x50	LGD2E331MA050***
	470	0.20	240	120	1.1	36x50	LGD2E471MA050***
	680	0.20	170	85	1.5	36x80	LGD2E681MA080***
	1000	0.20	110	55	1.9	36x100	LGD2E102MA100***
	1500	0.20	80	40	2.3	51x80	LGD2E152MC080***
	3300	0.20	40	20	4.2	64x96	LGD2E332MD096***
	4700	0.20	30	15	5.4	64x115	LGD2E472MD115***
	6800	0.20	20	10	6.9	64x115	LGD2E682MD115***
	10000	0.20	16	8	9.4	77x155	LGD2E103ME155***
	15000	0.20	12	6	12.3	90x157	LGD2E153MF157***
400 2G (450)	1000	0.20	164	82	2.6	51x80	LGD2G102MC080***
	1200	0.20	140	70	3.1	51x100	LGD2G122MC100***
	1500	0.20	98	49	3.6	51x100	LGD2G152MC100***
	1800	0.20	78	39	4.1	51x100	LGD2G182MC100***
	2200	0.20	60	30	4.5	51x100	LGD2G222MC100***
		0.20	60	30	4.5	64x96	LGD2G182MD096***
	2700	0.20	44	22	5.3	64x115	LGD2G272MD115***
		0.20	44	22	5.3	64x115	LGD2G272MD115***
	3300	0.20	40	20	6.2	64x130	LGD2G332MD130***
		0.20	40	20	6.2	77x105	LGD2G332ME105***
	3900	0.20	36	18	7.2	64x145	LGD2G392MD145***
		0.20	36	18	6.8	77x115	LGD2G392ME115***
	4700	0.20	26	13	8.7	77 x130	LGD2G472ME130***
		0.20	26	13	7.8	77 x145	LGD2G472ME145***
	5600	0.20	24	12	9.6	77 x145	LGD2G562ME145***
		0.20	24	12	9.2	77x155	LGD2G562ME155***
	6800	0.20	22	11	10.9	77x155	LGD2G682ME155***
		0.20	22	11	10.7	90x130	LGD2G682MF130***
	8200	0.20	20	10	11.1	77x180	LGD2G822ME180***
		0.20	20	10	11.8	90x157	LGD2G822MF157***
	10000	0.20	18	9	14.3	77x220	LGD2G103ME220***
		0.20	18	9	14.2	90x157	LGD2G103MF157***
	12000	0.20	16	8	15.8	90 x196	LGD2G123MF196***
		0.20	16	8	15.6	101 x155	LGD2G123MG155***
	15000	0.20	14	7	18.5	90 x236	LGD2G153MF236***
		0.20	14	7	18.3	101 x196	LGD2G153MG196***
	18000	0.20	12	6	21.1	90 x250	LGD2G183MF250***
		0.20	12	6	19.5	101 x236	LGD2G183MG236***

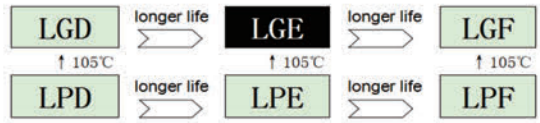
WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	220	0.20	830	415	1.2	36x50	LGD2W221MA050***
	270	0.20	736	368	1.4	36x60	LGD2W271MA060***
	330	0.20	554	277	1.6	36x80	LGD2W331MA080***
	470	0.20	390	195	2.1	51x80	LGD2W471MC080***
	560	0.20	342	171	2.4	51x80	LGD2W561MC080***
	680	0.20	270	135	2.7	51x80	LGD2W681MC080***
	820	0.20	224	112	3.6	51x80	LGD2W821MC080***
	1000	0.20	180	90	4.2	51x100	LGD2W102MC100***
	1200	0.20	140	70	4.8	51x100	LGD2W122MC100***
	1500	0.20	108	54	5.7	51x100	LGD2W152MC100***
	1800	0.20	86	43	6.5	51x100	LGD2W182MC100***
	2200	0.20	66	33	7.4	64 x96	LGD2W222MD096***
		0.20	66	33	7.3	64 x120	LGD2W222MD120***
	2700	0.20	56	28	8.8	64 x130	LGD2W272MD130***
		0.20	58	29	8.6	77 x105	LGD2W272ME105***
	3300	0.20	44	22	10.3	64 x145	LGD2W332MD145***
		0.20	46	23	10.1	77 x115	LGD2W332ME115***
	4700	0.20	36	18	12.8	77 x145	LGD2W472ME145***
		0.20	38	19	12.6	77 x155	LGD2W472ME155***
	5600	0.20	32	16	15.5	77 x170	LGD2W562ME170***
		0.20	34	17	15.9	90 x157	LGD2W562MF157***
	6800	0.20	30	15	16.3	77 x195	LGD2W682ME195***
		0.20	32	16	16.1	90 x157	LGD2W682MF157***
	8200	0.20	26	13	18.3	77 x220	LGD2W822ME220***
		0.20	28	14	18.2	90 x196	LGD2W822MF196***
	10000	0.20	22	11	20.3	77 x236	LGD2W103ME236***
		0.20	24	12	20.1	90 x220	LGD2W103MF220***
	12000	0.20	20	10	23.5	90 x236	LGD2W123MF236***
		0.20	22	11	23.3	101 x196	LGD2W123MG196***
	15000	0.20	18	9	25.3	90 x250	LGD2W153MF250***
		0.20	20	10	25.1	101 x236	LGD2W153MG236***

*** Indicates mounting method, terminal diameter, internal teeth.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

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LGE series 105℃ 12000 hours





- **Rohs requirements**
- **105℃ for 12000 hours.long lifetime product**
- **Used for industrial products such as switching power supply, inverter, rectifier, energy storage and other industrial products**

■ Product description

Item	Characteristic
Operating temperature range	-40℃ ~ +105℃
Rated voltage(WV/V)	250V ~ 450V
Capacitance(CAP/C)	220 ~ 470000μF
Tolerance(CAP/C)	±20% (25℃, 120Hz)
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)
Dissipation factor DF/tanδ(25℃, 120Hz)	≤0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6
	C(-25℃/C(+25℃)≥0.7

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	12000h	>200000h	12000h	12000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

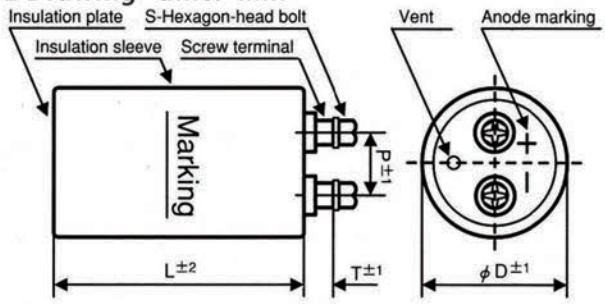
■ Ripple current correction factor

Temp.℃ / UR(V)	40	55	70	85	105
25 ~ 100	4.9	3.9	3.0	1.8	1.0
160 ~ 250	3.8	3.3	2.5	2.0	1.0
350 ~ 450	2.44	2.28	2.12	2.0	1.0

Freq. / UR(V)	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
25 ~ 100	0.95	1.00	1.04	1.10	1.15
160 ~ 250	0.90	1.00	1.08	1.15	1.20
350 ~ 450	0.80	1.00	1.18	1.35	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

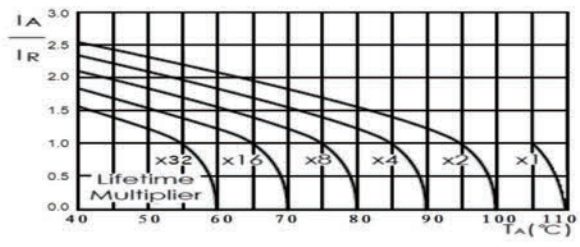
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 105°C
TA:Environment temp

■ LGE series :105℃ 12000 hours long lifetime screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	330	0.20	804	320	0.9	36x50	LGE2E331MA050***
	470	0.20	564	240	1.1	36x50	LGE2E471MA050***
	680	0.20	390	170	1.5	36x80	LGE2E681MA080***
	1000	0.20	265	110	1.9	36x100	LGE2E102MA100***
	1500	0.20	176	80	2.3	51x80	LGE2E152MC080***
	3300	0.20	80	40	4.2	64x96	LGE2E332MD096***
	4700	0.20	56	30	5.4	64x115	LGE2E472MD115***
	6800	0.20	39	20	6.9	77x115	LGE2E682ME115***
	10000	0.20	26	16	9.4	77x155	LGE2E103ME155***
	15000	0.20	17	12	12.3	90x157	LGE2E153MF157***
400 2G (450)	1000	0.20	265	164	2.6	51x80	LGE2G102MC080***
	1200	0.20	221	140	3.1	51x100	LGE2G122MC100***
	1500	0.20	176	98	3.6	51x100	LGE2G152MC100***
	1800	0.20	147	78	4.1	51x100	LGE2G182MC100***
	2200	0.20	120	60	4.5	64x96	LGE2G222MD096***
		0.20	120	60	4.5	64x115	LGE2G182MD115***
	2700	0.20	98	44	5.3	64x115	LGE2G272MD115***
		0.20	98	44	5.3	77x105	LGE2G272ME105***
	3300	0.20	80	40	6.2	64x130	LGE2G332MD130***
		0.20	80	40	6.2	77x105	LGE2G332ME105***
	3900	0.20	68	36	7.2	64x145	LGE2G392MD145***
		0.20	68	36	6.8	77x115	LGE2G392ME115***
	4700	0.20	56	26	8.7	77 x145	LGE2G472ME145***
		0.20	56	26	7.8	90x130	LGE2G472MF130***
	5600	0.20	47	24	9.6	77 x155	LGE2G562ME155***
		0.20	47	24	9.2	90x130	LGE2G562MF130***
	6800	0.20	39	22	10.9	77x190	LGE2G682ME190***
		0.20	39	22	10.7	90x130	LGE2G682MF130***
	8200	0.20	32	20	11.1	77x200	LGE2G822ME200***
		0.20	32	20	11.8	90x157	LGE2G822MF157***
	10000	0.20	26	18	14.3	77x240	LGE2G103ME240***
		0.20	26	18	14.2	90x196	LGE2G103MF196***
	12000	0.20	22	16	15.6	101 x196	LGE2G123MG196***
	15000	0.20	17	12	18.3	101 x236	LGE2G153MG236***
	18000	0.20	14	10	19.5	101 x250	LGE2G183MG250***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	220	0.20	1206	830	1.2	36x50	LGE2W221MA050***
	270	0.20	982	736	1.4	36x60	LGE2W271MA060***
	330	0.20	804	554	1.6	36x80	LGE2W331MA080***
	470	0.20	564	390	2.1	51x80	LGE2W471MC080***
	560	0.20	473	342	2.4	51x80	LGE2W561MC080***
	680	0.20	390	270	2.7	51x80	LGE2W681MC080***
	820	0.20	323	224	3.6	51x80	LGE2W821MC080***
	1000	0.20	265	180	4.2	51x100	LGE2W102MC100***
	1200	0.20	221	140	4.8	51x105	LGE2W122MC105***
	1500	0.20	176	108	5.7	64 x115	LGE2W152MD115***
	1800	0.20	147	86	6.5	64 x115	LGE2W182MD115***
	2200	0.20	120	66	7.4	64 x115	LGE2W222MD115***
		0.20	120	66	7.3	77 x96	LGE2W222ME096***
	2700	0.20	98	56	8.8	64 x130	LGE2W272MD130***
		0.20	98	58	8.6	77 x105	LGE2W272ME105***
	3300	0.20	80	44	10.3	64 x145	LGE2W332MD145***
		0.20	80	46	10.1	77 x115	LGE2W332ME115***
	4700	0.20	56	36	12.8	77 x155	LGE2W472ME155***
		0.20	56	36	12.6	90 x130	LGE2W472MF130***
	5600	0.20	47	32	15.5	77 x170	LGE2W562ME170***
		0.20	47	32	15.9	90 x157	LGE2W562MF157***
	6800	0.20	39	30	16.3	77 x195	LGE2W682ME195***
		0.20	39	30	16.1	90 x157	LGE2W682MF157***
	8200	0.20	32	20	18.3	77 x220	LGE2W822ME220***
		0.20	32	20	18.2	90 x196	LGE2W822MF196***
	10000	0.20	26	18	20.3	90 x196	LGE2W103MF196***
		0.20	26	18	20.1	101 x157	LGE2W103MG157***
	12000	0.20	22	16	23.5	90 x236	LGE2W123MF236***
		0.20	22	16	23.3	101 x196	LGE2W123MG196***
	15000	0.20	17	12	25.3	90 x250	LGE2W153MF250***
		0.20	20	10	25.1	101 x236	LGE2W153MG236***

*** Indicates mounting method, terminal diameter, internal teeth.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
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LGF series 105℃ 15000 hours

LGE	longer life	LGF	longer life	LGG
↑ 105℃		↑ 105℃		↑ 105℃
LPE	longer life	LPF	longer life	LPG



- Rohs requirements
- 105℃ for 15000 hours
- Used for industrial products such as switching power supplies, inverters, rectifiers, energy storage and other industrial products

■ Product description

Item	Characteristic
Operating temperature range	-40℃ ~ +105℃
Rated voltage(WV/V)	250V ~ 450V
Capacitance(CAP/C)	220 ~ 470000μF
Tolerance(CAP/C)	±20% (25℃, 120Hz)
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)
Dissipation factor DF/tanδ(25℃, 120Hz)	≤0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6
	C(-25℃/C(+25℃)≥0.7

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	15000h	>200000h	15000h	15000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

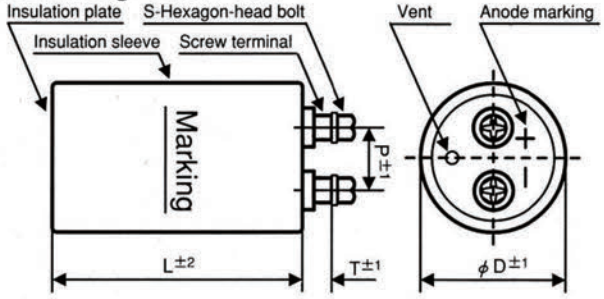
■ Ripple current correction factor

Temp.℃ / UR(V)	40	55	70	85	105
25 ~ 100	4.9	3.9	3.0	1.8	1.0
160 ~ 250	3.8	3.3	2.5	2.0	1.0
350 ~ 450	2.44	2.28	2.12	2.0	1.0

Freq. / UR(V)	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
25 ~ 100	0.95	1.00	1.04	1.10	1.15
160 ~ 250	0.90	1.00	1.08	1.15	1.20
350 ~ 450	0.80	1.00	1.18	1.35	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

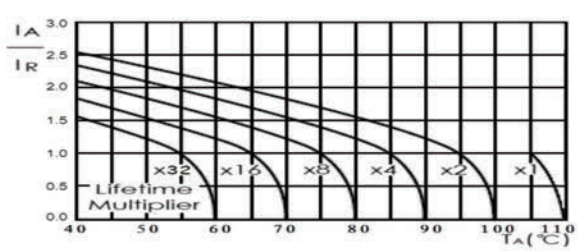
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 105°C
TA:Environment temp

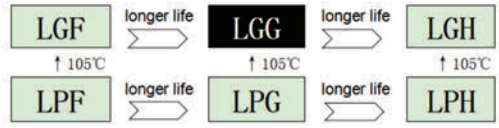
■ LGF series : 105℃ 15000 hours long lifetime screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	330	0.20	804	320	0.9	36x50	LGF2E331MA050***
	470	0.20	564	240	1.1	36x50	LGF2E471MA050***
	680	0.20	390	170	1.5	36x80	LGF2E681MA080***
	1000	0.20	265	110	1.9	36x100	LGF2E102MA100***
	1500	0.20	176	80	2.3	51x80	LGF2E152MC080***
	3300	0.20	80	40	4.2	64x96	LGF2E332MD096***
	4700	0.20	56	30	5.4	64x115	LGF2E472MD115***
	6800	0.20	39	20	6.9	77x115	LGF2E682ME115***
	10000	0.20	26	16	9.4	77x155	LGF2E103ME155***
	15000	0.20	17	12	12.3	90x157	LGF2E153MF157***
400 2G (450)	1000	0.20	265	164	2.6	51x80	LGF2G102MC080***
	1200	0.20	221	140	3.1	51x100	LGF2G122MC100***
	1500	0.20	176	98	3.6	51x100	LGF2G152MC100***
	1800	0.20	147	78	4.1	51x100	LGF2G182MC100***
	2200	0.20	120	60	4.5	64x96	LGF2G222MD096***
		0.20	120	60	4.5	64x115	LGF2G182MD115***
	2700	0.20	98	44	5.3	64x115	LGF2G272MD115***
		0.20	98	44	5.3	77x105	LGF2G272ME105***
	3300	0.20	80	40	6.2	64x130	LGF2G332MD130***
		0.20	80	40	6.2	77x105	LGF2G332ME105***
	3900	0.20	68	36	7.2	64x145	LGF2G392MD145***
		0.20	68	36	6.8	77x115	LGF2G392ME115***
	4700	0.20	56	26	8.7	77 x145	LGF2G472ME145***
		0.20	56	26	7.8	90x130	LGF2G472MF130***
	5600	0.20	47	24	9.6	77 x155	LGF2G562ME155***
		0.20	47	24	9.2	90x130	LGF2G562MF130***
	6800	0.20	39	22	10.9	77x190	LGF2G682ME190***
		0.20	39	22	10.7	90x130	LGF2G682MF130***
	8200	0.20	32	20	11.1	77x200	LGF2G822ME200***
		0.20	32	20	11.8	90x157	LGF2G822MF157***
	10000	0.20	26	18	14.3	77x240	LGF2G103ME240***
		0.20	26	18	14.2	90x196	LGF2G103MF196***
	12000	0.20	22	16	15.6	101 x196	LGF2G123MG196***
	15000	0.20	17	12	18.3	101 x236	LGF2G153MG236***
	18000	0.20	14	10	19.5	101 x250	LGF2G183MG250***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	220	0.20	1206	830	1.2	36x50	LGF2W221MA050***
	270	0.20	982	736	1.4	36x60	LGF2W271MA060***
	330	0.20	804	554	1.6	36x80	LGF2W331MA080***
	470	0.20	564	390	2.1	51x80	LGF2W471MC080***
	560	0.20	473	342	2.4	51x80	LGF2W561MC080***
	680	0.20	390	270	2.7	51x80	LGF2W681MC080***
	820	0.20	323	224	3.6	51x80	LGF2W821MC080***
	1000	0.20	265	180	4.2	51x100	LGF2W102MC100***
	1200	0.20	221	140	4.8	51x105	LGF2W122MC105***
	1500	0.20	176	108	5.7	64 x115	LGF2W152MD115***
	1800	0.20	147	86	6.5	64 x115	LGF2W182MD115***
	2200	0.20	120	66	7.4	64 x115	LGF2W222MD115***
		0.20	120	66	7.3	77 x96	LGF2W222ME096***
	2700	0.20	98	56	8.8	64 x130	LGF2W272MD130***
		0.20	98	58	8.6	77 x105	LGF2W272ME105***
	3300	0.20	80	44	10.3	64 x145	LGF2W332MD145***
		0.20	80	46	10.1	77 x115	LGF2W332ME115***
	4700	0.20	56	36	12.8	77 x155	LGF2W472ME155***
		0.20	56	36	12.6	90 x130	LGF2W472MF130***
	5600	0.20	47	32	15.5	77 x170	LGF2W562ME170***
		0.20	47	32	15.9	90 x157	LGF2W562MF157***
	6800	0.20	39	30	16.3	77 x195	LGF2W682ME195***
		0.20	39	30	16.1	90 x157	LGF2W682MF157***
	8200	0.20	32	20	18.3	77 x220	LGF2W822ME220***
		0.20	32	20	18.2	90 x196	LGF2W822MF196***
	10000	0.20	26	18	20.3	90 x196	LGF2W103MF196***
		0.20	26	18	20.1	101 x157	LGF2W103MG157***
	12000	0.20	22	16	23.5	90 x236	LGF2W123MF236***
		0.20	22	16	23.3	101 x196	LGF2W123MG196***
	15000	0.20	17	12	25.3	90 x250	LGF2W153MF250***
		0.20	20	10	25.1	101 x236	LGF2W153MG236***

*** Indicates mounting method, terminal diameter, internal teeth.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
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LGG series 105℃ 18000 hours





- Rohs requirements
- 105℃ for 18000 hours
- Used for industrial products such as switching power supplies, inverters, rectifiers, energy storage and other industrial products

■ Product description

Item	Characteristic
Operating temperature range	-40℃ ~ +105℃
Rated voltage(WV/V)	250V ~ 450V
Capacitance(CAP/C)	220 ~ 18000μF
Tolerance(CAP/C)	±20% (25℃, 120Hz)
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)
Dissipation factor DF/tanδ(25℃, 120Hz)	≤0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6
	C(-25℃/C(+25℃)≥0.7

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	18000h	>200000h	18000h	18000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage Applied current Application temperature	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
	IR	1.2×IR	IR	IR = 0	IR = 0	
	105℃	40℃	105℃	105℃	105℃	

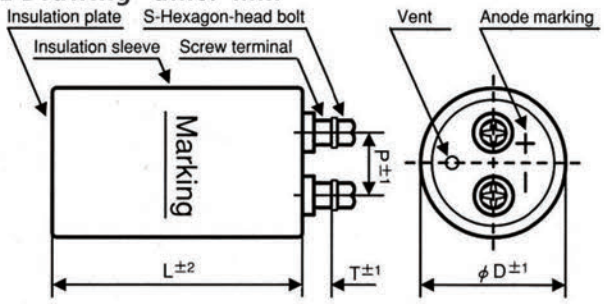
■ Ripple current correction factor

Temp.℃ / UR(V)	40	55	70	85	105
25 ~ 100	4.9	3.9	3.0	1.8	1.0
160 ~ 250	3.8	3.3	2.5	2.0	1.0
350 ~ 450	2.44	2.28	2.12	2.0	1.0

Freq. / UR(V)	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
25 ~ 100	0.95	1.00	1.04	1.10	1.15
160 ~ 250	0.90	1.00	1.08	1.15	1.20
350 ~ 450	0.80	1.00	1.18	1.35	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

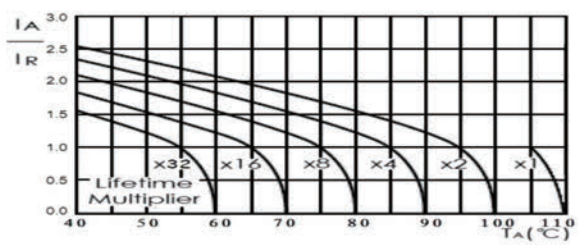
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 105°C
TA:Environment temp

■ LGG series:105℃ 18000 hours long lifetime screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	330	0.20	804	320	0.9	36x50	LGG2E331MA050***
	470	0.20	564	240	1.1	36x50	LGG2E471MA050***
	680	0.20	390	170	1.5	36x80	LGG2E681MA080***
	1000	0.20	265	110	1.9	36x100	LGG2E102MA100***
	1500	0.20	176	80	2.3	51x80	LGG2E152MC100***
	3300	0.20	80	40	4.2	64x96	LGG2E332MD096***
	4700	0.20	56	30	5.4	64x115	LGG2E472MD115***
	6800	0.20	39	20	6.9	77x115	LGG2E682ME115***
	10000	0.20	26	16	9.4	77x155	LGG2E103ME155***
	15000	0.20	17	12	12.3	90x157	LGG2E153MF157***
400 2G (450)	1000	0.20	265	164	2.6	51x80	LGG2G102MC100***
	1200	0.20	221	140	3.1	51x100	LGG2G122MC100***
	1500	0.20	176	98	3.6	51x100	LGG2G152MC105***
	1800	0.20	147	78	4.1	51x100	LGG2G182MD096***
	2200	0.20	120	60	4.5	64x96	LGG2G222MD115***
		0.20	120	60	4.5	64x115	LGG2G182MD130***
	2700	0.20	98	44	5.3	64x115	LGG2G272MD130***
		0.20	98	44	5.3	77x105	LGG2G272ME115***
	3300	0.20	80	40	6.2	64x130	LGG2G332MD145***
		0.20	80	40	6.2	77x105	LGG2G332ME115***
	3900	0.20	68	36	7.2	64x145	LGG2G392ME130***
		0.20	68	36	6.8	77x115	LGG2G392ME155***
	4700	0.20	56	26	8.7	77 x145	LGG2G472ME155***
		0.20	56	26	7.8	90x130	LGG2G472MF157***
	5600	0.20	47	24	9.6	77 x155	LGG2G562ME170***
		0.20	47	24	9.2	90x130	LGG2G562MF157***
	6800	0.20	39	22	10.9	77x190	LGG2G682ME190***
		0.20	39	22	10.7	90x130	LGG2G682MF157***
	8200	0.20	32	20	11.1	77x200	LGG2G822ME236***
		0.20	32	20	11.8	90x157	LGG2G822MF170***
	10000	0.20	26	18	14.3	77x240	LGG2G103ME250***
		0.20	26	18	14.2	90x196	LGG2G103MF196***
	12000	0.20	22	16	15.6	101 x196	LGG2G123MG196***
	15000	0.20	17	12	18.3	101 x236	LGG2G153MG236***
	18000	0.20	14	10	19.5	101 x250	LGG2G183MG250***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	220	0.20	1206	830	1.2	36x50	LGG2W221MA050***
	270	0.20	982	736	1.4	36x60	LGG2W271MA060***
	330	0.20	804	554	1.6	36x80	LGG2W331MA080***
	470	0.20	564	390	2.1	51x80	LGG2W471MC080***
	560	0.20	473	342	2.4	51x80	LGG2W561MC100***
	680	0.20	390	270	2.7	51x80	LGG2W681MC100***
	820	0.20	323	224	3.6	51x80	LGG2W821MC100***
	1000	0.20	265	180	4.2	51x100	LGG2W102MC105***
	1200	0.20	221	140	4.8	51x105	LGG2W122MD115***
	1500	0.20	176	108	5.7	64 x115	LGG2W152MD115***
	1800	0.20	147	86	6.5	64 x115	LGG2W182MD130***
	2200	0.20	120	66	7.4	64 x115	LGG2W222MD130***
		0.20	120	66	7.3	77 x96	LGG2W222ME115***
	2700	0.20	98	56	8.8	64 x130	LGG2W272ME115***
		0.20	98	58	8.6	77 x105	LGG2W272ME130***
	3300	0.20	80	44	10.3	64 x145	LGG2W332ME130***
		0.20	80	46	10.1	77 x115	LGG2W332ME155***
	4700	0.20	56	36	12.8	77 x155	LGG2W472ME155***
		0.20	56	36	12.6	90 x130	LGG2W472MF145***
	5600	0.20	47	32	15.5	77 x170	LGG2W562ME170***
		0.20	47	32	15.9	90 x157	LGG2W562MF157***
	6800	0.20	39	30	16.3	77 x195	LGG2W682ME195***
		0.20	39	30	16.1	90 x157	LGG2W682MF157***
	8200	0.20	32	20	18.3	77 x220	LGG2W822ME220***
		0.20	32	20	18.2	90 x196	LGG2W822MF196***
	10000	0.20	26	18	20.3	90 x196	LGG2W103MF196***
		0.20	26	18	20.1	101 x157	LGG2W103MG157***
	12000	0.20	22	16	23.5	90 x236	LGG2W123MF236***
		0.20	22	16	23.3	101 x196	LGG2W123MG196***
	15000	0.20	17	12	25.3	90 x250	LGG2W153MG236***
		0.20	20	10	25.1	101 x236	

*** Indicates mounting method, terminal diameter, internal teeth.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
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LGH series 105℃ 20000 hours

LGF ↑105℃ longer life LGG ↑105℃ longer life LGH ↑105℃

LPF longer life LPG longer life LPH



- Rohs requirements
- 105℃ for 20000 hours
- Used for industrial products such as switching power supplies, inverters, rectifiers, energy storage and other industrial products

■ Product description

Item	Characteristic
Operating temperature range	-40℃ ~ +105℃
Rated voltage(WV/V)	350V ~ 450V
Capacitance(CAP/C)	1000 ~ 15000μF
Tolerance(CAP/C)	±20% (25℃, 120Hz)
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)
Dissipation factor DF/tanδ(25℃, 120Hz)	≤0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6
	C(-25℃/C(+25℃)≥0.7

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	20000h	>200000h	20000h	20000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage Applied current Application temperature	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
	IR	1.2×IR	IR	IR = 0	IR = 0	
	105℃	40℃	105℃	105℃	105℃	

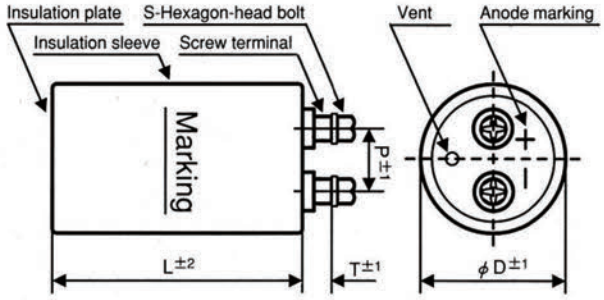
■ Ripple current correction factor

Temp.℃ / UR(V)	40	55	70	85	105
Coefficient	2.44	2.28	2.12	2.0	1.0

Freq. / UR(V)	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.18	1.35	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

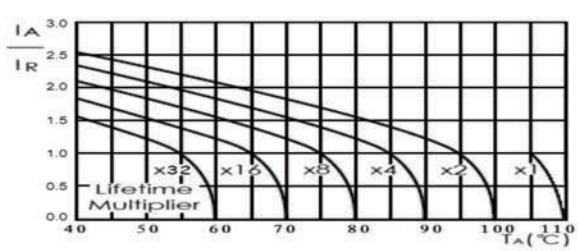
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
35	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 105°C
TA:Environment temp

■ LGH series:105℃ 20000 hours screw capacitor

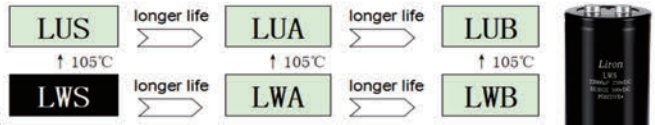
WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	1000	0.20	312	109	3.1	51x100	LGH2V102MC100***
	1200	0.20	260	91	3.3	51x100	LGH2V122MC100***
	1500	0.20	208	72	4.1	64x115	LGH2V152MD115***
	1800	0.20	173	60	4.9	64x115	LGH2V182MD115***
	2200	0.20	141	49	5.6	64x115	LGH2V222MD115***
	2700	0.20	115	40	6.1	64x130	LGH2V272MD130***
	3300	0.20	95	33	7.3	64x130	LGH2V332MD130***
	3900	0.20	80	28	8.4	77x115	LGH2V392ME115***
	4700	0.20	66	23	9.7	77x130	LGH2V472ME130***
	4700	0.20	66	23	9.7	77x155	LGH2V472ME155***
	5600	0.20	56	19	11.2	77x155	LGH2V562ME155***
	6800	0.20	46	16	13.4	90x130	LGH2V682MF130***
	8200	0.20	38	13	14.9	90x157	LGH2V822MF157***
	10000	0.20	32	10	17.8	90x170	LGH2V103MF170***
	12000	0.20	26	9	21.5	90x196	LGH2V123MF196***
	15000	0.20	21	7	26.5	90x236	LGH2V153MF236***
400 2G (450)	1000	0.20	32	109	3.1	51x100	LGH2G153MC100***
	1200	0.20	26	91	3.6	51x100	LGH2G122MC100***
	1500	0.20	21	72	4.5	64x115	LGH2G152MD115***
	1800	0.20	17	60	5.1	64x115	LGH2G182MD115***
	2200	0.20	14	49	5.5	64x130	LGH2G222MD130***
	2700	0.20	11	40	6.6	64x130	LGH2G272MD130***
	3300	0.20	95	33	7.8	77x130	LGH2G332ME130***
	3900	0.20	80	28	8.9	77x130	LGH2G392ME130***
	3900	0.20	80	28	8.9	77x155	LGH2G392ME155***
	4700	0.20	66	23	10.3	77x155	LGH2G472ME155***
	5600	0.20	56	19	11.8	77x155	LGH2G562ME155***
	5600	0.20	56	19	12.3	90x130	LGH2G562MF130***
	6800	0.20	46	16	14.7	90x157	LGH2G682MF157***
	8200	0.20	38	13	16.2	90x157	LGH2G822MF157***
	10000	0.20	31	10	19.7	90x196	LGH2G103MF196***
	12000	0.20	26	9	23.5	90x236	LGH2G123MF236***
450 2W (500)	1000	0.20	312	109	3.3	51x100	LGH2W102MC100***
	1200	0.20	260	91	4.0	64x115	LGH2W122MD115***
	1500	0.20	208	72	4.6	64x115	LGH2W152MD115***
	1800	0.20	173	60	5.5	77x115	LGH2W182ME115***
	2200	0.20	141	49	6.1	77x115	LGH2W222ME115***
	2700	0.20	115	40	7.0	64x130	LGH2W272MD130***
	2700	0.20	115	40	7.4	77x130	LGH2W272ME130***
	3300	0.20	94	33	8.6	77x130	LGH2W332ME130***
	3900	0.20	80	28	9.8	77x155	LGH2W392ME155***
	4700	0.20	66	23	11.2	77x155	LGH2W472ME155***
	5600	0.20	55	19	13.5	77x195	LGH2W562ME195***
	5600	0.20	55	19	13.5	90x157	LGH2W562MF157***
	6800	0.20	45	16	16.2	90x196	LGH2W682MF196***
	8200	0.20	38	13	17.8	90x196	LGH2W822MF196***
	10000	0.20	31	10	21.5	90x236	LGH2W103MF236***

*** Indicates mounting method, terminal diameter, internal teeth.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

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LWS series 85℃ 2000 hours



- Rohs requirements
- 85℃ 2000 hours series,large ripple resistant product
- Used for switching power supply, inverters, air conditioners, laser spot welders, and other industrial products. industrial products

■ Product description

Item	Characteristic		
Operating temperature range	-40℃ ~ +85℃		-25℃ ~ +85℃
Rated voltage(WV/V)	160V ~ 450V		460V ~ 600V
Capacitance(CAP/C)	470 ~ 100000μF		
Tolerance(CAP/C)	±20% (25℃, 120Hz)		
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)		
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	160 ~ 250	350 ~ 600
	DF	0.25	0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6		
	C(-25℃/C(+25℃)≥0.7		

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	4000h	>65000h	2000h	2000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

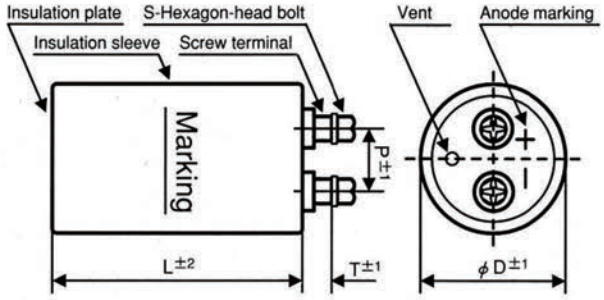
■ Ripple current correction factor

Temp.℃	40	60	70	85
Coefficient	2.24	1.81	1.56	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.18	1.25	1.50

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

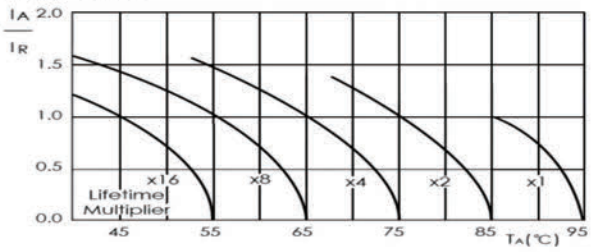
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 85°C
TA:Environment temp

■ LWS series : 85℃ 2000 hours screw large ripple resistant capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
160 2C (200)	3300	0.25	47	31	7.0	36x120	LWS2C332MA120***
	4700	0.25	32	21	8.0	51x80	LWS2C472MC080***
	5600	0.25	29	19	9.5	51x100	LWS2C562MC100***
	6800	0.25	24	16	10.5	51x100	LWS2C682MC100***
	10000	0.25	20	13	14.0	64x105	LWS2C103MD105***
	12000	0.25	15	10	15.3	64x105	LWS2C123MD105***
	15000	0.25	14	9	19.3	64x130	LWS2C153MD130***
		0.25	12	8	19.3	77x105	LWS2C153ME105***
	18000	0.25	12	8	21.1	64x130	LWS2C183MD130***
		0.25	12	8	21.1	77x115	LWS2C183ME115***
	22000	0.25	9	6	24.7	77x130	LWS2C223ME130***
		0.25	9	6	24.7	90x105	LWS2C223MF105***
	25000	0.25	9	6	26.5	77x130	LWS2C253ME130***
		0.25	9	6	26.5	90x105	LWS2C253MF105***
	27000	0.25	9	6	29.0	77x155	LWS2C273ME155***
		0.25	9	6	29.0	90x130	LWS2C273MF130***
	33000	0.25	8	5	32.1	90x130	LWS2C333MF130***
		0.25	8	5	32.1	90x157	LWS2C333MF157***
	39000	0.25	6	4	37.7	90x157	LWS2C393MF157***
		0.25	6	4	37.7	101x155	LWS2C333MG155***
	47000	0.25	5	3	42.0	90x170	LWS2C473MF170***
		0.25	5	3	42.0	101x155	LWS2C473MG155***
	56000	0.25	5	3	45.4	90x196	LWS2C563MF196***
	68000	0.25	5	3	49.3	90x220	LWS2C683MF220***
	82000	0.25	5	3	52.8	90x250	LWS2C823MF250***
	100000	0.25	5	3	57.1	101x250	LWS2C104MG250***
200 2D (250)	2200	0.25	57	38	5.3	36x100	LWS2D222MA100***
	3300	0.25	36	24	6.6	51x80	LWS2D332MC080***
	4700	0.25	30	20	8.6	51x100	LWS2D472MC100***
	5600	0.25	27	18	10.3	51x100	LWS2D562MC100***
	6800	0.25	21	14	11.9	51x130	LWS2D682MC130***
	8200	0.25	17	11	12.7	64x105	LWS2D822MD105***
	10000	0.25	14	9	14.0	64x105	LWS2D103MD105***
		0.25	14	9	14.0	77x96	LWS2D822ME096***
	15000	0.25	11	7	19.4	77x105	LWS2D153ME105***
		0.25	11	7	19.4	77x115	LWS2D153ME115***
	18000	0.25	9	6	22.3	77x130	LWS2D183ME130***
		0.25	9	6	22.3	77x155	LWS2D183ME155***
	22000	0.25	8	5	26.5	77x155	LWS2D223ME155***
		0.25	8	5	26.5	90x130	LWS2D223MF130***
	33000	0.25	6	4	34.2	77x220	LWS2D333ME220***
		0.25	6	4	34.2	90x157	LWS2D333MF157***
	47000	0.25	5	3	37.3	90x250	LWS2D473MF250***
		0.25	5	3	37.3	101x190	LWS2D473MG190***
	56000	0.25	5	3	40.2	101x250	LWS2D563MG250***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	3300	0.25	35	23	7.3	51x100	LWS2E332MC100***
	4700	0.25	26	17	9.6	64x105	LWS2E472MD105***
	6800	0.25	18	12	12.3	64x115	LWS2E682MD115***
		0.25	18	12	12.3	77x96	LWS2E682ME096***
	8200	0.25	17	11	13.6	64x115	LWS2E822MD115***
		0.25	17	11	13.6	77x105	LWS2E822ME105***
	10000	0.25	14	9	15.8	64x120	LWS2E103MD120***
		0.25	14	9	15.8	77x105	LWS2E103ME105***
	15000	0.25	11	7	20.4	77x130	LWS2E153ME130***
		0.25	11	7	20.4	77x155	LWS2E153ME155***
	18000	0.25	9	6	23.9	77x155	LWS2E183ME155***
		0.25	9	6	23.9	90x130	LWS2E183MF130***
	22000	0.25	7	5	28.2	77x170	LWS2E223ME170***
		0.25	7	5	28.2	90x157	LWS2E223MF157***
	25000	0.25	7	5	29.0	77x190	LWS2E253ME190***
		0.25	7	5	29.0	90x157	LWS2E253MF157***
	27000	0.25	7	5	30.6	77x236	LWS2E273ME236***
		0.25	7	5	30.6	90x157	LWS2E273MF157***
	33000	0.25	6	4	32.3	77x250	LWS2E333ME250***
		0.25	6	4	32.3	90x170	LWS2E333MF170***
	39000	0.25	6	4	35.0	90x196	LWS2E393MF196***
		0.25	6	4	35.0	101x155	LWS2E393MG155***
	47000	0.25	5	3	37.5	90x250	LWS2E473MF250***
		0.25	5	3	37.5	101x190	LWS2E473MG190***
	56000	0.25	5	3	40.0	101x250	LWS2E563MG250***
350 2V (400)	1000	0.20	156	104	4.6	36x100	LWS2V102MA100***
	1500	0.20	108	72	5.8	51x80	LWS2V152MC080***
	1800	0.20	87	58	6.9	51x100	LWS2V182MC100***
	2200	0.20	72	48	7.7	51x100	LWS2V222MC100***
	2700	0.20	59	39	9.6	64x105	LWS2V272MD105***
	3300	0.20	48	32	10.7	64x105	LWS2V332MD105***
	3900	0.20	42	28	12.2	64x115	LWS2V392MD115***
	4700	0.20	38	25	13.9	64x130	LWS2V472MD130***
	5600	0.20	33	22	15.4	77x115	LWS2V562ME115***
	6800	0.20	26	17	17.7	77x130	LWS2V682ME130***
	8200	0.20	21	14	20.8	77x155	LWS2V822ME155***
	10000	0.20	18	12	24.4	90x157	LWS2V103MF157***
	12000	0.20	15	10	27.0	90x157	LWS2V123MF157***
	15000	0.20	12	8	33.1	90x196	LWS2V153MF196***
		0.20	12	8	33.1	101x155	LWS2V153MG155***
	18000	0.20	11	7	38.9	90x170	LWS2V183MF170***
	22000	0.20	9	6	42.7	90x196	LWS2V223MF196***
	25000	0.20	9	6	44.7	90x220	LWS2V253MF220***
	27000	0.20	8	5	48.5	90x236	LWS2V273MF236***
	33000	0.20	8	5	50.9	101x250	LWS2V333MG250***

■ LWS series : 85℃ 2000 hours screw large ripple resistant capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	1000	0.20	123	82	4.7	51x80	LWS2G102MC080***
	1200	0.20	102	68	5.1	51x80	LWS2G122MC080***
	1500	0.20	87	58	6.3	51x80	LWS2G152MC080***
	1800	0.20	71	47	7.0	51x100	LWS2G182MC100***
	2200	0.20	60	40	8.6	51x100	LWS2G222MC100***
	2500	0.20	54	36	9.0	51x100	LWS2G252MC100***
		0.20	54	36	9.0	64x105	LWS2G252MD105***
	2700	0.20	50	33	9.6	51x100	LWS2G272MC100***
		0.20	50	33	9.6	64x105	LWS2G272MD105***
	3300	0.20	47	31	11.1	64x105	LWS2G332MD105***
		0.20	47	31	11.1	64x115	LWS2G332MD115***
	3900	0.20	38	25	12.7	64x115	LWS2G392MD115***
		0.20	38	25	12.7	77x96	LWS2G392ME096***
	4700	0.20	36	24	14.2	64x135	LWS2G472MD135***
		0.20	36	24	14.2	64x145	LWS2G472MD145***
		0.20	36	24	14.2	77x115	LWS2G472ME115***
	5600	0.20	29	19	16.2	64x145	LWS2G562MD1456***
		0.20	29	19	16.2	77x115	LWS2G562ME115***
		0.20	29	19	16.2	77x130	LWS2G562ME130***
	6800	0.20	24	16	19.0	77x130	LWS2G682ME130***
		0.20	24	16	19.0	77x143	LWS2G682ME143***
		0.20	24	16	19.0	77x155	LWS2G682ME155***
	7400	0.20	23	15	20.9	77x130	LWS2G742ME130***
		0.20	23	15	20.9	77x155	LWS2G742ME155***
	8200	0.20	21	14	22.3	77x145	LWS2G822ME145***
		0.20	21	14	22.3	77x155	LWS2G822ME155***
		0.20	21	14	22.3	90x130	LWS2G822MF130***
		0.20	21	14	22.3	90x157	LWS2G822MF157***
	10000	0.20	17	11	24.7	77x155	LWS2G103ME155***
		0.20	17	11	24.7	77x178	LWS2G103ME178***
		0.20	17	11	24.7	90x130	LWS2G103MF130***
		0.20	17	11	24.7	90x157	LWS2G103MF157***
	12000	0.20	15	10	29.4	77x178	LWS2G123ME178***
		0.20	15	10	29.4	90x157	LWS2G123MF157***
		0.20	15	10	29.4	90x170	LWS2G123MF170***
		0.20	15	10	29.4	90x196	LWS2G123MF196***
	15000	0.20	14	9	35.6	77x220	LWS2G153ME220***
		0.20	14	9	35.6	90x170	LWS2G153MF170***
		0.20	14	9	35.6	90x196	LWS2G153MF196***
	18000	0.20	12	8	38.6	77x250	LWS2G183ME250***
		0.20	12	8	38.6	90x196	LWS2G183MF196***
	22000	0.20	11	7	40.9	90x236	LWS2G223MF236***
		0.20	11	7	40.9	101x190	LWS2G223MG190***
	25000	0.20	9	6	44.3	90x250	LWS2G253MF250***
		0.20	9	6	44.3	101x237	LWS2G253MG237***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	470	0.20	300	200	3.0	36x80	LWS2W471MA080***
	680	0.20	210	140	3.8	36x100	LWS2W681MA100***
	820	0.20	144	96	4.3	51x80	LWS2W821MC080***
	1000	0.20	123	82	4.7	51x80	LWS2W102MC080***
	1200	0.20	108	72	5.7	51x100	LWS2W122MC100***
	1500	0.20	87	58	6.9	51x100	LWS2W152MC100***
	1800	0.20	69	46	8.0	51x100	LWS2W182MC100***
		0.20	69	46	8.0	64x105	LWS2W182MD105***
	2200	0.20	55	39	8.5	64x105	LWS2W222MD105***
		0.20	55	39	8.5	77x96	LWS2W222ME096***
	2500	0.20	53	35	9.3	64x105	LWS2W252MD105***
		0.20	53	35	9.3	77x96	LWS2W252ME096***
	2700	0.20	50	33	9.9	64x105	LWS2W272MD105***
		0.20	50	33	9.9	77x96	LWS2W272ME096***
	2900	0.20	47	31	10.5	64x130	LWS2W292MD130***
		0.20	47	31	10.5	77x105	LWS2W292ME105***
	3300	0.20	45	30	11.7	64x115	LWS2W332MD115***
		0.20	45	30	11.7	77x105	LWS2W332ME105***
	3900	0.20	44	29	12.8	64x120	LWS2W392MD120***
		0.20	44	29	12.8	77x115	LWS2W392ME115***
		0.20	44	29	12.8	77x145	LWS2W392ME145***
	4700	0.20	36	24	15.1	77x115	LWS2W472ME115***
		0.20	36	24	15.1	77x130	LWS2W472ME130***
		0.20	36	24	15.1	77x145	LWS2W472ME145***
	5600	0.20	24	16	17.3	77x115	LWS2W562ME115***
		0.20	24	16	17.3	77x145	LWS2W562ME145***
		0.20	24	16	17.3	77x155	LWS2W562ME155***
	6800	0.20	21	14	20.4	77x155	LWS2W682ME155***
		0.20	21	14	20.4	90x157	LWS2W562MF157***
	7500	0.20	20	13	21.3	77x145	LWS2W752ME145***
		0.20	20	13	21.3	77x155	LWS2W752ME155***
	8200	0.20	18	12	22.3	77x155	LWS2W822ME155***
		0.20	18	12	22.3	90x157	LWS2W562MF157***
	10000	0.20	15	10	27.3	77x190	LWS2W103ME190***
		0.20	15	10	27.3	90x157	LWS2W103MF157***
		0.20	15	10	27.3	90x196	LWS2W103MF196***
	12000	0.20	12	8	31.9	90x196	LWS2W123MF196***
		0.20	12	8	31.9	90x236	LWS2W123MF236***
	15000	0.20	12	8	33.9	90x250	LWS2W153MF250***
		0.20	12	8	33.9	101x190	LWS2W153MG190***
	18000	0.20	12	8	36.9	90x250	LWS2W183MF250***
		0.20	12	8	36.9	101x190	LWS2W183MG190***
	20000	0.20	12	8	38.5	90x222	LWS2W203MF222***
		0.20	12	8	38.5	101x190	LWS2W203MG190***
	22000	0.20	12	8	41.6	101x250	LWS2W223MG250***

■ LWS series : 85℃ 2000 hours screw large ripple resistant capacitor

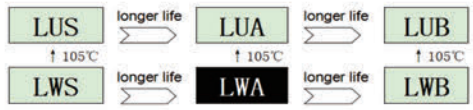
WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550	1000	0.20	128	85	6.2	51x80	LWS2H102MC080***
		0.20	128	85	6.2	51x100	LWS2H102MC100***
	1200	0.20	105	70	7.0	51x100	LWS2H122MC100***
		0.20	105	70	7.0	64x96	LWS2H122MD096***
	1500	0.20	90	60	7.7	51x100	LWS2H152MC100***
		0.20	90	60	7.7	64x96	LWS2H152MD096***
	1800	0.20	75	50	8.6	64x105	LWS2H182MD105***
		0.20	75	50	8.6	77x105	LWS2H182ME105***
	2200	0.20	62	41	9.3	64x130	LWS2H222MD130***
		0.20	62	41	9.3	77x105	LWS2H222ME105***
	2500	0.20	59	39	10.1	64x130	LWS2H252MD130***
		0.20	59	39	10.1	77x115	LWS2H222ME115***
	2700	0.20	54	36	10.9	64x130	LWS2H272MD130***
		0.20	54	36	10.9	77x115	LWS2H222ME115***
	3300	0.20	48	32	13.0	64x130	LWS2H332MD130***
		0.20	48	32	13.0	77x130	LWS2H332ME130***
	3900	0.20	45	30	14.6	64x130	LWS2H392MD130***
		0.20	45	30	14.6	77x130	LWS2H392ME130***
	4700	0.20	41	27	16.3	77x130	LWS2H472ME130***
		0.20	41	27	16.3	77x145	LWS2H472ME145***
	5600	0.20	32	21	18.6	77x155	LWS2H562ME155***
		0.20	32	21	18.6	90x157	LWS2H472MF157***
	6800	0.20	27	18	21.3	77x155	LWS2H682ME155***
		0.20	27	18	21.3	77x190	LWS2H682ME190***
		0.20	27	18	21.3	90x157	LWS2H682MF157***
		0.20	27	18	21.3	90x170	LWS2H682MF170***
	8200	0.20	21	14	23.2	77x170	LWS2H822ME170***
		0.20	21	14	23.2	90x196	LWS2H822MF196***
	10000	0.20	18	12	29.8	90x170	LWS2H103MF170***
		0.20	18	12	29.8	90x236	LPS2H103MF236***
		0.20	18	12	29.8	101x155	LPS2H103MG155***
	12000	0.20	15	10	34.8	90x220	LWS2H123MF220***
		0.20	15	10	34.8	90x236	LPS2H123MF236***
		0.20	15	10	34.8	101x190	LWS2H123MG190***
	15000	0.20	12	8	38.2	90x250	LWS2H153MF250***
		0.20	12	8	38.2	101x236	LWS2H153MG236***
	18000	0.20	11	7	42.7	101x250	LWS2H183MG250***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
550 2Y (600)	680	0.20	279	186	3.8	51x80	LWS2Y681MC080***
	820	0.20	173	115	5.1	51x80	LWS2Y821MC080***
		0.20	173	115	5.1	51x100	LWS2Y821MC100***
	1000	0.20	128	85	6.2	51x100	LWS2Y102MC100***
		0.20	128	85	6.2	64x96	LWS2Y102MD096***
	1200	0.20	105	70	7.0	51x100	LWS2Y122MC100***
		0.20	105	70	7.0	64x96	LWS2Y122MD096***
	1500	0.20	90	60	7.7	64x96	LWS2Y152MD096***
		0.20	90	60	7.7	77x105	LWS2Y152ME105***
	1800	0.20	75	50	8.6	64x105	LWS2Y182MD105***
		0.20	75	50	8.6	77x105	LWS2Y182ME105***
	2200	0.20	62	41	9.3	64x130	LWS2Y222MD130***
		0.20	62	41	9.3	77x105	LWS2Y222ME105***
	2500	0.20	59	39	10.1	64x130	LWS2Y252MD130***
		0.20	59	39	10.1	77x115	LWS2Y222ME115***
	2700	0.20	54	36	10.9	64x130	LWS2Y272MD130***
		0.20	54	36	10.9	77x115	LWS2Y222ME115***
	3300	0.20	48	32	13.0	77x115	LWS2Y332ME115***
		0.20	48	32	13.0	77x130	LWS2Y332ME130***
	3900	0.20	45	30	14.6	77x130	LWS2Y392ME130***
		0.20	45	30	14.6	77x145	LWS2Y392ME145***
	4700	0.20	41	27	16.3	77x145	LWS2Y472ME145***
		0.20	41	27	16.3	77x155	LWS2Y472ME155***
	5600	0.20	32	21	18.6	77x170	LWS2Y562ME170***
		0.20	32	21	18.6	90x157	LWS2Y472MF157***
	6800	0.20	27	18	21.3	77x190	LWS2Y682ME190***
		0.20	27	18	21.3	77x196	LWS2Y682ME196***
		0.20	27	18	21.3	90x157	LWS2Y682MF157***
		0.20	27	18	21.3	90x170	LWS2Y682MF170***
	8200	0.20	21	14	23.2	77x220	LWS2Y822ME220***
		0.20	21	14	23.2	90x196	LWS2Y822MF196***
	10000	0.20	18	12	29.8	90x220	LWS2Y103MF220***
		0.20	18	12	29.8	90x236	LWS2Y103MF236***
		0.20	18	12	29.8	101x170	LWS2Y103MG170***
	12000	0.20	12	8	34.8	90x250	LWS2Y123MF250***
		0.20	12	8	34.8	101x190	LWS2Y123MG190***
	15000	0.20	11	7	38.2	101x250	LWS2Y153MG250***

■ LWS series : 85℃ 2000 hours screw large ripple resistant capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
600 2S (600)	680	0.20	375	250	4.2	51x100	LWS2S681MC100***
	820	0.20	195	130	5.1	51x100	LWS2S821MC100***
		0.20	195	130	5.1	64x96	LWS2S821MD096***
	1000	0.20	128	85	6.2	64x96	LWS2S102MD096***
		0.20	128	85	6.2	64x115	LWS2S102MD115***
	1200	0.20	105	70	7.0	64x115	LWS2S122MD115***
		0.20	105	70	7.0	77x105	LWS2S122ME105***
	1500	0.20	90	60	7.7	64x130	LWS2S152MD130***
		0.20	90	60	7.7	77x105	LWS2S152ME105***
	1800	0.20	75	50	8.6	64x130	LWS2S182MD130***
		0.20	75	50	8.6	77x115	LWS2S182ME115***
	2200	0.20	62	41	9.3	64x130	LWS2S222MD130***
		0.20	62	41	9.3	77x115	LWS2S222ME115***
	2500	0.20	59	39	10.1	77x130	LWS2S252ME130***
		0.20	59	39	10.1	77x145	LWS2S252ME145***
	2700	0.20	54	36	10.9	77x145	LWS2S272ME145***
		0.20	54	36	10.9	77x155	LWS2S272ME155***
	3300	0.20	48	32	13.0	77x155	LWS2S332ME155***
		0.20	48	32	13.0	77x170	LWS2S332ME170***
	3900	0.20	45	30	14.6	77x170	LWS2S392ME170***
		0.20	45	30	14.6	90x145	LWS2S392MF145***
	4700	0.20	41	27	16.3	77x196	LWS2S472ME196***
		0.20	41	27	16.3	90x157	LWS2S472MF157***
	5600	0.20	32	21	18.6	77x220	LWS2S562ME220***
		0.20	32	21	18.6	90x170	LWS2S562MF170***
	6800	0.20	27	18	21.3	77x250	LWS2S682ME250***
		0.20	27	18	21.3	90x196	LWS2S682MF196***
		0.20	27	18	21.3	101x155	LWS2S682MG155***
	8200	0.20	21	14	23.2	90x236	LWS2S822MF236***
		0.20	21	14	23.2	101x190	LWS2S822MG190***
	10000	0.20	18	12	29.8	90x250	LWS2S103MF250***
		0.20	18	12	29.8	101x236	LWS2S103MG236***
	12000	0.20	15	10	34.8	101x250	LWS2S123MG250***

LWA series 85℃ 3000 hours





- Rohs requirements
- 85℃ 3000 hours series,large ripple resistant product
- Used for switching power supply, inverters, air conditioners, laser spot welders, and other industrial products. industrial products

■ Product description

Item	Characteristic			
Operating temperature range	-40℃ ~ +85℃		-25℃ ~ +85℃	
Rated voltage(WV/V)	160V ~ 450V		460V ~ 500V	
Capacitance(CAP/C)	470 ~ 100000μF			
Tolerance(CAP/C)	±20% (25℃, 120Hz)			
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)			
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	160 ~ 250	350 ~ 600	
	DF	0.25	0.20	
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6			
	C(-25℃/C(+25℃)≥0.7			

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	5000h	>80000h	3000h	3000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

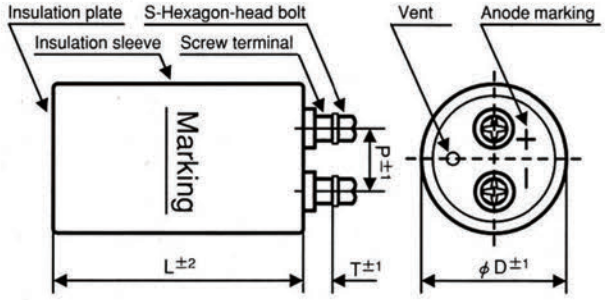
■ Ripple current correction factor

Temp.℃	40	60	70	85
Coefficient	2.24	1.81	1.56	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.80	1.00	1.18	1.25	1.50

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

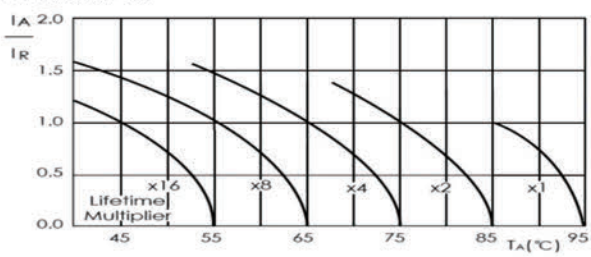
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 85°C
TA:Environment temp

■ LWA series:85℃ 3000 hours screw large ripple resistant capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
160 2C (200)	3300	0.25	47	31	7.0	36x120	LWA2C332MA120***
	4700	0.25	32	21	8.0	51x80	LWA2C472MC080***
	5600	0.25	29	19	9.5	51x100	LWA2C562MC100***
	6800	0.25	24	16	10.5	51x100	LWA2C682MC100***
	10000	0.25	20	13	14.0	64x105	LWA2C103MD105***
	12000	0.25	15	10	15.3	64x105	LWA2C123MD105***
	15000	0.25	14	9	19.3	64x130	LWA2C153MD130***
		0.25	12	8	19.3	77x105	LWA2C153ME105***
	18000	0.25	12	8	21.1	64x130	LWA2C183MD130***
		0.25	12	8	21.1	77x115	LWA2C183ME115***
	22000	0.25	9	6	24.7	77x130	LWA2C223ME130***
		0.25	9	6	24.7	90x105	LWA2C223MF105***
	25000	0.25	9	6	26.5	77x130	LWA2C253ME130***
		0.25	9	6	26.5	90x105	LWA2C253MF105***
	27000	0.25	9	6	29.0	77x155	LWA2C273ME155***
		0.25	9	6	29.0	90x130	LWA2C273MF130***
	33000	0.25	8	5	32.1	90x130	LWA2C333MF130***
		0.25	8	5	32.1	90x157	LWA2C333MF157***
	39000	0.25	6	4	37.7	90x157	LWA2C393MF157***
		0.25	6	4	37.7	101x155	LWA2C333MG155***
	47000	0.25	5	3	42.0	90x170	LWA2C473MF170***
		0.25	5	3	42.0	101x155	LWA2C473MG155***
	56000	0.25	5	3	45.4	90x196	LWA2C563MF196***
	68000	0.25	5	3	49.3	90x220	LWA2C683MF220***
	82000	0.25	5	3	52.8	90x250	LWA2C823MF250***
	100000	0.25	5	3	57.1	101x250	LWA2C104MG250***
200 2D (250)	2200	0.25	57	38	5.3	36x100	LWA2D222MA100***
	3300	0.25	36	24	6.6	51x80	LWA2D332MC080***
	4700	0.25	30	20	8.6	51x100	LWA2D472MC100***
	5600	0.25	27	18	10.3	51x100	LWA2D562MC100***
	6800	0.25	21	14	11.9	51x130	LWA2D682MC130***
	8200	0.25	17	11	12.7	64x105	LWA2D822MD105***
	10000	0.25	14	9	14.0	64x105	LWA2D103MD105***
		0.25	14	9	14.0	77x96	LWA2D822ME096***
	15000	0.25	11	7	19.4	77x105	LWA2D153ME105***
		0.25	11	7	19.4	77x115	LWA2D153ME115***
	18000	0.25	9	6	22.3	77x130	LWA2D183ME130***
		0.25	9	6	22.3	77x155	LWA2D183ME155***
	22000	0.25	8	5	26.5	77x155	LWA2D223ME155***
		0.25	8	5	26.5	90x130	LWA2D223MF130***
	33000	0.25	6	4	34.2	77x220	LWA2D333ME220***
		0.25	6	4	34.2	90x157	LWA2D333MF157***
	47000	0.25	5	3	37.3	90x250	LWA2D473MF250***
		0.25	5	3	37.3	101x190	LWA2D473MG190***
	56000	0.25	5	3	40.2	101x250	LWA2D563MG250***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	3300	0.25	35	23	7.3	51x100	LWA2E332MC100***
	4700	0.25	26	17	9.6	64x105	LWA2E472MD105***
	6800	0.25	18	12	12.3	64x115	LWA2E682MD115***
		0.25	18	12	12.3	77x96	LWA2E682ME096***
	8200	0.25	17	11	13.6	64x115	LWA2E822MD115***
		0.25	17	11	13.6	77x105	LWA2E822ME105***
	10000	0.25	14	9	15.8	64x120	LWA2E103MD120***
		0.25	14	9	15.8	77x105	LWA2E103ME105***
	15000	0.25	11	7	20.4	77x130	LWA2E153ME130***
		0.25	11	7	20.4	77x155	LWA2E153ME155***
	18000	0.25	9	6	23.9	77x155	LWA2E183ME155***
		0.25	9	6	23.9	90x130	LWA2E183MF130***
	22000	0.25	7	5	28.2	77x170	LWA2E223ME170***
		0.25	7	5	28.2	90x157	LWA2E223MF157***
	25000	0.25	7	5	29.0	77x190	LWA2E253ME190***
		0.25	7	5	29.0	90x157	LWA2E253MF157***
	27000	0.25	7	5	30.6	77x236	LWA2E273ME236***
		0.25	7	5	30.6	90x157	LWA2E273MF157***
	33000	0.25	6	4	32.3	77x250	LWA2E333ME250***
		0.25	6	4	32.3	90x170	LWA2E333MF170***
	39000	0.25	6	4	35.0	90x196	LWA2E393MF196***
		0.25	6	4	35.0	101x155	LWA2E393MG155***
	47000	0.25	5	3	37.5	90x250	LWA2E473MF250***
		0.25	5	3	37.5	101x190	LWA2E473MG190***
	56000	0.25	5	3	40.0	101x250	LWA2E563MG250***
350 2V (400)	1000	0.20	156	104	4.6	36x100	LWA2V102MA100***
	1500	0.20	108	72	5.8	51x80	LWA2V152MC080***
	1800	0.20	87	58	6.9	51x100	LWA2V182MC100***
	2200	0.20	72	48	7.7	51x100	LWA2V222MC100***
	2700	0.20	59	39	9.6	64x105	LWA2V272MD105***
	3300	0.20	48	32	10.7	64x105	LWA2V332MD105***
	3900	0.20	42	28	12.2	64x115	LWA2V392MD115***
	4700	0.20	38	25	13.9	64x130	LWA2V472MD130***
	5600	0.20	33	22	15.4	77x115	LWA2V562ME115***
	6800	0.20	26	17	17.7	77x130	LWA2V682ME130***
	8200	0.20	21	14	20.8	77x155	LWA2V822ME155***
	10000	0.20	18	12	24.4	90x157	LWA2V103MF157***
	12000	0.20	15	10	27.0	90x157	LWA2V123MF157***
	15000	0.20	12	8	33.1	90x196	LWA2V153MF196***
		0.20	12	8	33.1	101x155	LWA2V153MG155***
	18000	0.20	11	7	38.9	90x170	LWA2V183MF170***
	22000	0.20	9	6	42.7	90x196	LWA2V223MF196***
	25000	0.20	9	6	44.7	90x220	LWA2V253MF220***
	27000	0.20	8	5	48.5	90x236	LWA2V273MF236***
	33000	0.20	8	5	50.9	101x250	LWA2V333MG250***

■ LWA series:85℃ 3000 hours screw large ripple resistant capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	1000	0.20	123	82	4.7	51x80	LWA2G102MC080***
	1200	0.20	102	68	5.1	51x80	LWA2G122MC080***
	1500	0.20	87	58	6.3	51x80	LWA2G152MC080***
	1800	0.20	71	47	7.0	51x100	LWA2G182MC100***
	2200	0.20	60	40	8.6	51x100	LWA2G222MC100***
	2500	0.20	54	36	9.0	51x100	LWA2G252MC100***
		0.20	54	36	9.0	64x105	LWA2G252MD105***
	2700	0.20	50	33	9.6	51x100	LWA2G272MC100***
		0.20	50	33	9.6	64x105	LWA2G272MD105***
	3300	0.20	47	31	11.1	64x105	LWA2G332MD105***
		0.20	47	31	11.1	64x115	LWA2G332MD115***
	3900	0.20	38	25	12.7	64x115	LWA2G392MD115***
		0.20	38	25	12.7	77x96	LWA2G392ME096***
	4700	0.20	36	24	14.2	64x135	LWA2G472MD135***
		0.20	36	24	14.2	64x145	LWA2G472MD145***
		0.20	36	24	14.2	77x115	LWA2G472ME115***
	5600	0.20	29	19	16.2	64x145	LWA2G562MD145***
		0.20	29	19	16.2	77x115	LWA2G562ME115***
		0.20	29	19	16.2	77x130	LWA2G562ME130***
	6800	0.20	24	16	19.0	77x130	LWA2G682ME130***
		0.20	24	16	19.0	77x143	LWA2G682ME143***
		0.20	24	16	19.0	77x155	LWA2G682ME155***
	7400	0.20	23	15	20.9	77x130	LWA2G742ME130***
		0.20	23	15	20.9	77x155	LWA2G742ME155***
	8200	0.20	21	14	22.3	77x145	LWA2G822ME145***
		0.20	21	14	22.3	77x155	LWA2G822ME155***
		0.20	21	14	22.3	90x130	LWA2G822MF130***
		0.20	21	14	22.3	90x157	LWA2G822MF157***
	10000	0.20	17	11	24.7	77x155	LWA2G103ME155***
		0.20	17	11	24.7	77x178	LWA2G103ME178***
		0.20	17	11	24.7	90x130	LWA2G103MF130***
		0.20	17	11	24.7	90x157	LWA2G103MF157***
	12000	0.20	15	10	29.4	77x178	LWA2G123ME178***
		0.20	15	10	29.4	90x157	LWA2G123MF157***
		0.20	15	10	29.4	90x170	LWA2G123MF170***
		0.20	15	10	29.4	90x196	LWA2G123MF196***
	15000	0.20	14	9	35.6	77x220	LWA2G153ME220***
		0.20	14	9	35.6	90x170	LWA2G153MF170***
		0.20	14	9	35.6	90x196	LWA2G153MF196***
	18000	0.20	12	8	38.6	77x250	LWA2G183ME250***
		0.20	12	8	38.6	90x196	LWA2G183MF196***
	22000	0.20	11	7	40.9	90x236	LWA2G223MF236***
		0.20	11	7	40.9	101x190	LWA2G223MG190***
	25000	0.20	9	6	44.3	90x250	LWA2G253MF250***
		0.20	9	6	44.3	101x237	LWA2G253MG237***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	470	0.20	300	200	3.0	36x80	LWA2W471MA080***
	680	0.20	210	140	3.8	36x100	LWA2W681MA100***
	820	0.20	144	96	4.3	51x80	LWA2W821MC080***
	1000	0.20	123	82	4.7	51x80	LWA2W102MC080***
	1200	0.20	108	72	5.7	51x100	LWA2W122MC100***
	1500	0.20	87	58	6.9	51x100	LWA2W152MC100***
	1800	0.20	69	46	8.0	51x100	LWA2W182MC100***
		0.20	69	46	8.0	64x105	LWA2W182MD105***
	2200	0.20	55	39	8.5	64x105	LWA2W222MD105***
		0.20	55	39	8.5	77x96	LWA2W222ME096***
	2500	0.20	53	35	9.3	64x105	LWA2W252MD105***
		0.20	53	35	9.3	77x96	LWA2W252ME096***
	2700	0.20	50	33	9.9	64x105	LWA2W272MD105***
		0.20	50	33	9.9	77x96	LWA2W272ME096***
	2900	0.20	47	31	10.5	64x130	LWA2W292MD130***
		0.20	47	31	10.5	77x105	LWA2W292ME105***
	3300	0.20	45	30	11.7	64x115	LWA2W332MD115***
		0.20	45	30	11.7	77x105	LWA2W332ME105***
	3900	0.20	44	29	12.8	64x120	LWA2W392MD120***
		0.20	44	29	12.8	77x115	LWA2W392ME115***
		0.20	44	29	12.8	77x145	LWA2W392ME145***
	4700	0.20	36	24	15.1	77x115	LWA2W472ME115***
		0.20	36	24	15.1	77x130	LWA2W472ME130***
		0.20	36	24	15.1	77x145	LWA2W472ME145***
	5600	0.20	24	16	17.3	77x115	LWA2W562ME115***
		0.20	24	16	17.3	77x145	LWA2W562ME145***
		0.20	24	16	17.3	77x155	LWA2W562ME155***
	6800	0.20	21	14	20.4	77x155	LWA2W682ME155***
		0.20	21	14	20.4	90x157	LWA2W562MF157***
	7500	0.20	20	13	21.3	77x145	LWA2W752ME145***
		0.20	20	13	21.3	77x155	LWA2W752ME155***
	8200	0.20	18	12	22.3	77x155	LWA2W822ME155***
		0.20	18	12	22.3	90x157	LWA2W562MF157***
	10000	0.20	15	10	27.3	77x190	LWA2W103ME190***
		0.20	15	10	27.3	90x157	LWA2W103MF157***
		0.20	15	10	27.3	90x196	LWA2W103MF196***
	12000	0.20	12	8	31.9	90x196	LWA2W123MF196***
		0.20	12	8	31.9	90x236	LWA2W123MF236***
	15000	0.20	12	8	33.9	90x250	LWA2W153MF250***
		0.20	12	8	33.9	101x190	LWA2W153MG190***
	18000	0.20	12	8	36.9	90x250	LWA2W183MF250***
		0.20	12	8	36.9	101x190	LWA2W183MG190***
	20000	0.20	12	8	38.5	90x222	LWA2W203MF222***
		0.20	12	8	38.5	101x190	LWA2W203MG190***
	22000	0.20	12	8	41.6	101x250	LWA2W223MG250***

■ LWA series:85℃ 3000 hours screw large ripple resistant capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 2H (550	1000	0.20	128	85	4.6	51x80	LWA2H102MC080***
		0.20	128	85	4.6	51x100	LWA2H102MC100***
	1200	0.20	105	70	5.2	51x100	LWA2H122MC100***
		0.20	105	70	5.2	64x96	LWA2H122MD096***
	1500	0.20	90	60	5.7	51x100	LWA2H152MC100***
		0.20	90	60	5.7	64x96	LWA2H152MD096***
	1800	0.20	75	50	6.4	64x105	LWA2H182MD105***
		0.20	75	50	6.4	77x105	LWA2H182ME105***
	2200	0.20	62	41	6.9	64x130	LWA2H222MD130***
		0.20	62	41	6.9	77x105	LWA2H222ME105***
	2500	0.20	59	39	7.5	64x130	LWA2H252MD130***
		0.20	59	39	7.5	77x115	LWA2H222ME115***
	2700	0.20	54	36	8.1	64x130	LWA2H272MD130***
		0.20	54	36	8.1	77x115	LWA2H222ME115***
	3300	0.20	48	32	9.6	64x130	LWA2H332MD130***
		0.20	48	32	9.6	77x130	LWA2H332ME130***
	3900	0.20	45	30	10.8	64x130	LWA2H392MD130***
		0.20	45	30	10.8	77x130	LWA2H392ME130***
	4700	0.20	41	27	12.1	77x130	LWA2H472ME130***
		0.20	41	27	12.1	77x145	LWA2H472ME145***
	5600	0.20	32	21	13.8	77x155	LWA2H562ME155***
		0.20	32	21	13.8	90x157	LWA2H472MF157***
	6800	0.20	27	18	15.8	77x155	LWA2H682ME155***
		0.20	27	18	15.8	77x190	LWA2H682ME190***
		0.20	27	18	15.8	90x157	LWA2H682MF157***
		0.20	27	18	15.8	90x170	LWA2H682MF170***
	8200	0.20	21	14	17.2	77x170	LWA2H822ME170***
		0.20	21	14	17.2	90x196	LWA2H822MF196***
	10000	0.20	18	12	22.1	90x170	LWA2H103MF170***
		0.20	18	12	22.1	90x236	LPS2H103MF236***
		0.20	18	12	22.1	101x155	LPS2H103MG155***
	12000	0.20	15	10	25.8	90x220	LWA2H123MF220***
		0.20	15	10	25.8	90x236	LPS2H123MF236***
		0.20	15	10	25.8	101x190	LWA2H123MG190***
	15000	0.20	12	8	28.3	90x250	LWA2H153MF250***
		0.20	12	8	28.3	101x236	LWA2H153MG236***
	18000	0.20	11	7	31.6	101x250	LWA2H183MG250***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
550 2Y (600)	680	0.20	279	186	2.8	51x80	LWA2Y681MC080***
	820	0.20	173	115	3.8	51x80	LWA2Y821MC080***
		0.20	173	115	3.8	51x100	LWA2Y821MC100***
	1000	0.20	128	85	4.6	51x100	LWA2Y102MC100***
		0.20	128	85	4.6	64x96	LWA2Y102MD096***
	1200	0.20	105	70	5.2	51x100	LWA2Y122MC100***
		0.20	105	70	5.2	64x96	LWA2Y122MD096***
	1500	0.20	90	60	5.7	64x96	LWA2Y152MD096***
		0.20	90	60	5.7	77x105	LWA2Y152ME105***
	1800	0.20	75	50	6.4	64x105	LWA2Y182MD105***
		0.20	75	50	6.4	77x105	LWA2Y182ME105***
	2200	0.20	62	41	6.9	64x130	LWA2Y222MD130***
		0.20	62	41	6.9	77x105	LWA2Y222ME105***
	2500	0.20	59	39	7.5	64x130	LWA2Y252MD130***
		0.20	59	39	7.5	77x115	LWA2Y222ME115***
	2700	0.20	54	36	8.1	64x130	LWA2Y272MD130***
		0.20	54	36	8.1	77x115	LWA2Y222ME115***
	3300	0.20	48	32	9.6	77x115	LWA2Y332ME115***
		0.20	48	32	9.6	77x130	LWA2Y332ME130***
	3900	0.20	45	30	10.8	77x130	LWA2Y392ME130***
		0.20	45	30	10.8	77x145	LWA2Y392ME145***
	4700	0.20	41	27	12.1	77x145	LWA2Y472ME145***
		0.20	41	27	12.1	77x155	LWA2Y472ME155***
	5600	0.20	32	21	13.8	77x170	LWA2Y562ME170***
		0.20	32	21	13.8	90x157	LWA2Y472MF157***
	6800	0.20	27	18	15.8	77x190	LWA2Y682ME190***
		0.20	27	18	15.8	77x196	LWA2Y682ME196***
		0.20	27	18	15.8	90x157	LWA2Y682MF157***
		0.20	27	18	15.8	90x170	LWA2Y682MF170***
	8200	0.20	21	14	17.2	77x220	LWA2Y822ME220***
		0.20	21	14	17.2	90x196	LWA2Y822MF196***
	10000	0.20	18	12	22.1	90x220	LWA2Y103MF220***
		0.20	18	12	22.1	90x236	LWA2Y103MF236***
		0.20	18	12	22.1	101x170	LWA2Y103MG170***
	12000	0.20	12	8	25.8	90x250	LWA2Y123MF250***
		0.20	12	8	25.8	101x190	LWA2Y123MG190***
	15000	0.20	11	7	28.3	101x250	LWA2Y153MG250***

■ LWA series:85℃ 3000 hours screw large ripple resistant capacitor

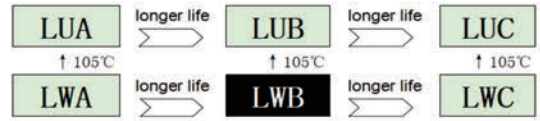
WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
600 2S (600)	680	0.20	375	250	4.2	51x100	LWA2S681MC100***
	820	0.20	195	130	5.1	51x100	LWA2S821MC100***
		0.20	195	130	5.1	64x96	LWA2S821MD096***
	1000	0.20	128	85	6.2	64x96	LWA2S102MD096***
		0.20	128	85	6.2	64x115	LWA2S102MD115***
	1200	0.20	105	70	7.0	64x115	LWA2S122MD115***
		0.20	105	70	7.0	77x105	LWA2S122ME105***
	1500	0.20	90	60	7.7	64x130	LWA2S152MD130***
		0.20	90	60	7.7	77x105	LWA2S152ME105***
	1800	0.20	75	50	8.6	64x130	LWA2S182MD130***
		0.20	75	50	8.6	77x115	LWA2S182ME115***
	2200	0.20	62	41	9.3	64x130	LWA2S222MD130***
		0.20	62	41	9.3	77x115	LWA2S222ME115***
	2500	0.20	59	39	10.1	77x130	LWA2S252ME130***
		0.20	59	39	10.1	77x145	LWA2S252ME145***
	2700	0.20	54	36	10.9	77x145	LWA2S272ME145***
		0.20	54	36	10.9	77x155	LWA2S272ME155***
	3300	0.20	48	32	13.0	77x155	LWA2S332ME155***
		0.20	48	32	13.0	77x170	LWA2S332ME170***
	3900	0.20	45	30	14.6	77x170	LWA2S392ME170***
		0.20	45	30	14.6	90x145	LWA2S392MF145***
	4700	0.20	41	27	16.3	77x196	LWA2S472ME196***
		0.20	41	27	16.3	90x157	LWA2S472MF157***
	5600	0.20	32	21	18.6	77x220	LWA2S562ME220***
		0.20	32	21	18.6	90x170	LWA2S562MF170***
	6800	0.20	27	18	21.3	77x250	LWA2S682ME250***
		0.20	27	18	21.3	90x196	LWA2S682MF196***
		0.20	27	18	21.3	101x155	LWA2S682MG155***
	8200	0.20	21	14	23.2	90x236	LWA2S822MF236***
		0.20	21	14	23.2	101x190	LWA2S822MG190***
	10000	0.20	18	12	29.8	90x250	LWA2S103MF250***
		0.20	18	12	29.8	101x236	LWA2S103MG236***
	12000	0.20	15	10	34.8	101x250	LWA2S123MG250***

*** Indicates mounting method, terminal diameter, internal teeth.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

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LWB series 85℃ 5000 hours





- Rohs requirements
- 85℃ 5000 hours series,large ripple resistant product
- Used for switching power supply, inverters, laser spot welders, and other industrial products

■ Product description

Item	Characteristic	
Operating temperature range	-40℃ ~ +85℃	-25℃ ~ +85℃
Rated voltage(WV/V)	350V ~ 450V	460V ~ 500V
Capacitance(CAP/C)	1000 ~ 22000μF	
Tolerance(CAP/C)	±20% (25℃, 120Hz)	
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)	
Dissipation factor DF/tanδ(25℃, 120Hz)	350 ~ 500	
	≤0.20	
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6	
	C(-25℃/C(+25℃)≥0.7	

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	8000h	>150000h	5000h	5000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

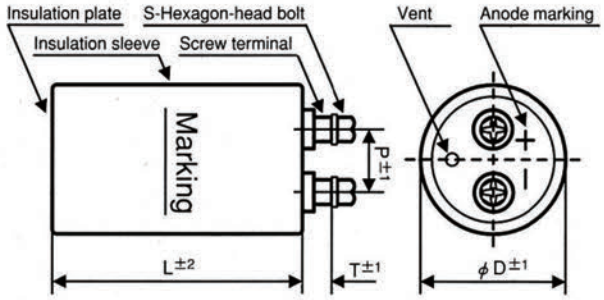
■ Ripple current correction factor

Temp.℃	40	60	70	85
Coefficient	2.24	1.81	1.56	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.8	1.00	1.18	1.30	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

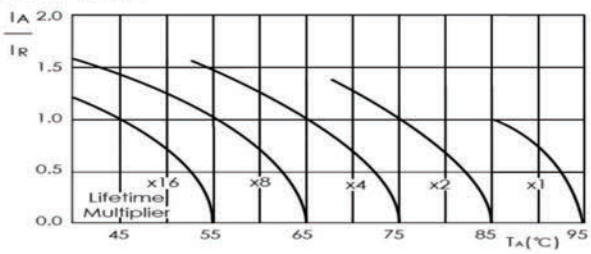
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 85°C
TA:Environment temp

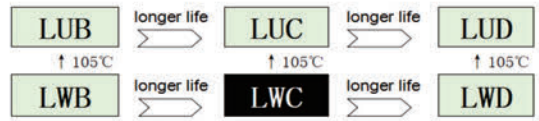
■ LWB series:85℃ 5000 hours screw large ripple resistant capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	2700	0.20	74	36	11.5	64x100	LWB2V272MD100***
	2700	0.20	46	23	9.9	51x100	LWB2V272MC100***
	3300	0.20	40	20	11.2	51x100	LWB2V332MC100***
		0.20	40	20	11.6	64 x90	LWB2V332MD090***
	3900	0.20	34	17	12.8	51 x100	LWB2V392MC100***
		0.20	34	17	13.3	64 x96	LWB2V392MD096***
	4700	0.20	28	14	14.6	64 x96	LWB2V472MD096***
	5600	0.20	24	12	16.8	64 x115	LWB2V562MD115***
		0.20	24	12	17.3	77 x96	LWB2V562ME096***
	6800	0.20	20	10	18.8	64 x130	LWB2V682MD130***
		0.20	20	10	19.6	77 x105	LWB2V682ME105***
	8200	0.20	18	9	22.4	77 x115	LWB2V822ME115***
	10000	0.20	14	7	28.4	90 x130	LWB2V103MF130***
	12000	0.20	12	6	29.9	77 x155	LWB2V123ME155***
		0.20	12	6	32.2	90 x130	LWB2V123MF130***
	15000	0.20	10	5	36.2	90 x145	LWB2V153MF145***
	18000	0.20	8	5	40.6	90 x170	LWB2V183MF170***
	22000	0.20	7	4	47.1	90 x196	LWB2V223MF196***
400 2G (450)	1800	0.20	68	34	7.6	51 x80	LWB2G182MC080***
	2200	0.20	56	28	9.1	64 x96	LWB2G222MD096***
	2700	0.20	46	23	10.5	51x105	LWB2G272MC105***
		0.20	46	23	10.6	64 x96	LWB2G272MD096***
	3300	0.20	38	19	12.6	51x100	LWB2G332MC130***
		0.20	38	19	12.5	64x96	LWB2G332MD096***
	3900	0.20	32	16	13.5	64x96	LWB2G392MD096***
	4700	0.20	28	14	15.4	64x115	LWB2G472MD115***
		0.20	28	14	16.5	77x96	LWB2G472ME096***
	5600	0.20	24	12	17.2	64x130	LWB2G562MD130***
		0.20	24	12	18.1	77x105	LWB2G562ME105***
	6800	0.20	20	10	20.8	77x155	LWB2G682ME155***
	8200	0.20	18	9	23.4	77x155	LWB2G822ME155***
	10000	0.20	14	7	27.1	77x170	LWB2G103ME170***
		0.20	14	6	29.2	90x157	LWB2G103MF157***
	12000	0.20	12	6	31.5	77x196	LWB2G123ME190***
		0.20	12	6	32.6	90x157	LWB2G122MF157***
	15000	0.20	10	5	37.2	77x220	LWB2G153ME220***
		0.20	10	5	38.5	90x170	LWB2G153MF170***
	18000	0.20	9	5	42.6	90 x196	LWB2G183MF196***
450 2W (500)	1500	0.20	112	56	7.1	51x80	LWB2W152MC080***
	1800	0.20	94	47	8.0	51x100	LWB2W182MC096***
	2200	0.20	78	39	9.2	51 x100	LWB2W222MC105***
		0.20	78	39	9.7	64x96	LWB2W222MD080***
	2700	0.20	66	33	10.5	51x100	LWB2W272MC080***
		0.20	66	33	10.9	64x96	LWB2W272MD096***
	3300	0.20	56	28	12.1	64x96	LWB2W332MD100***
	3900	0.20	48	24	13.9	64x115	LWB2W392MD115***
		0.20	48	24	15.2	77x96	LWB2W392ME096***
	4700	0.20	40	20	15.5	64 x130	LWB2W472MD130***
		0.20	40	20	16.9	77x105	LWB2W472MD130***
	5600	0.20	34	17	18.2	64 x145	LWB2W562MD155***
		0.20	34	17	19.4	77 x115	LWB2W562ME117***
450 2W (500)	6800	0.20	28	14	21.5	77 x130	LWB2W682ME130***
		0.20	28	14	24.3	90 x130	LWB2W682MF130***
	8200	0.20	24	12	24.5	77 x155	LWB2W822ME155***
		0.20	24	12	27.5	90 x130	LWB2W822MF130***
	10000	0.20	20	10	29.2	77 x195	LWB2W103ME195***
		0.20	20	10	30.3	90 x145	LWB2W103MF145***
	12000	0.20	17	8.5	33.4	77 x220	LWB2W123ME220***
		0.20	17	8.5	34.6	90 x170	LWB2W123MF170***
	15000	0.20	14	6.8	39.8	90 x196	LWB2W153MF196***
500 2H (550)	1000	0.20	176	88	6.1	51 x80	LWB2H102MC080***
	1200	0.20	146	73	7.0	51 x100	LWB2H122MC100***
	1500	0.20	120	60	8.1	51 x100	LWB2H152MC100***
		0.20	120	60	8.2	64 x96	LWB2H152MD096***
	1800	0.20	102	51	9.3	51 x115	LWB2H182MC115***
	2200	0.20	86	43	10.6	64 x105	LWB2H222MD105***
		0.20	86	43	11.0	77 x96	LWB2H222ME096***
	2700	0.20	72	36	12.2	64 x115	LWB2H272MD115***
	3300	0.20	60	30	14.1	77 x105	LWB2H332ME105***
	3900	0.20	52	26	16.5	77 x130	LWB2H392ME130***
	4700	0.20	42	21	18.8	77 x145	LWB2H472ME145***
		0.20	42	21	19.2	90 x130	LWB2H472MF130***
	5600	0.20	38	19	21.4	90 x157	LWB2H562MF157***
	6800	0.20	32	16	24.6	90 x145	LWB2H682MF145***
	8200	0.20	26	13	28.5	90 x170	LWB2H822MF170***
	10000	0.20	22	11	32.9	90 x196	LWB2H103MF196***
	12000	0.20	20	10	34.7	90 x220	LWB2H123MF220***

*** Indicates mounting method, terminal diameter, internal teeth. If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

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LWC series 85℃ 8000 hours





- Rohs requirements
- 85℃ 8000 hours,large ripple resistant series
- Used in switching power supplies, inverters, rectifiers, energy storage and other industrial products

■ Product description

Item	Characteristic	
Operating temperature range	-40℃ ~ +85℃	-25℃ ~ +85℃
Rated voltage(WV/V)	400V ~ 450V	460V ~ 500V
Capacitance(CAP/C)	1500 ~ 12000μF	
Tolerance(CAP/C)	±20% (25℃, 120Hz)	
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)	
Dissipation factor DF/tanδ(25℃, 120Hz)	≤0.20	
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6(400V ~ 450V)	
	C(-25℃/C(+25℃)≥0.7(460V ~ 500V)	
Implementation Standards	JIS C 5101-4	

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	10000h	>150000h	8000h	9000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

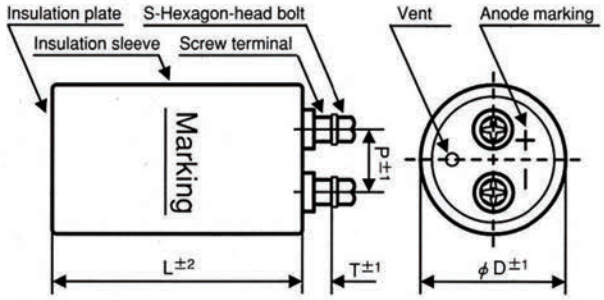
■ Ripple current correction factor

Temp.℃	40	60	70	85
Coefficient	1.89	1.67	1.5	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.8	1.00	1.10	1.30	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

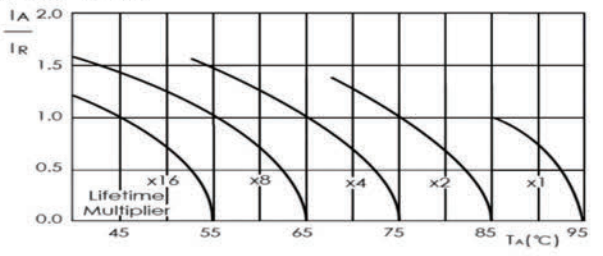
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



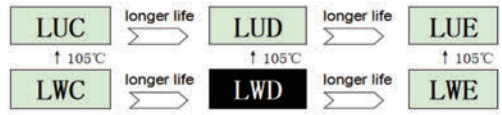
IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 85°C
TA:Environment temp

■ LWC series:85℃ 8000 hours screw large ripple resistant capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	2700	0.20	74.0	36	12	64x100	LWC2G272MD100***
	3300	0.20	65.0	21	13.2	64x115	LWC2G332MD115***
	3900	0.20	50.0	19	15.36	64x130	LWC2G392MD130***
	3900	0.20	50.0	24	16.2	77x115	LWC2G392ME115***
	4700	0.20	40.0	19	17.76	64x155	LWC2G472MD155***
	4700	0.20	40.0	19	17.76	77x115	LWC2G472ME115***
	5600	0.20	34.0	16	19.44	77x130	LWC2G562ME130***
	5600	0.20	34.0	16	19.44	90x130	LWC2G562MF130***
	6800	0.20	28.0	13	22.44	77x155	LWC2G682ME155***
	6800	0.20	28.0	13	22.44	90x145	LWC2G682MF145***
	8200	0.20	22.0	10	26.4	90x157	LWC2G822MF157***
	10000	0.20	18.0	8	29.04	90x157	LWC2G103MF157***
	12000	0.20	22.0	10	34.2	90x196	LWC2G123MF196***
450 2W (500)	2200	0.20	90.0	44	12.48	64x115	LWC2W222MD115**
	2200	0.20	90.0	44	13.8	77x96	LWC2W222ME096**
	2700	0.20	74.0	36	15.36	64x130	LWC2W272MD130**
	3300	0.20	58.0	28	18.24	64x155	LWC2W332MD155**
	3300	0.20	58.0	28	18.24	77x115	LWC2W332ME115**
	3900	0.20	52.0	25	18.96	64x155	LWC2W392MD155**
	3900	0.20	52.0	25	19.8	77x130	LWC2W392ME130**
	4700	0.20	40.0	19	21.6	77x145	LWC2W472ME145**
	4700	0.20	40.0	19	24.96	90x130	LWC2W472MF130**
	5600	0.20	34.0	16	26.16	77x155	LWC2W562ME155**
	5600	0.20	34.0	16	29.04	90x130	LWC2W562MF130**
	6800	0.20	28.0	13	29.88	90x157	LWC2W682MF157**
	8200	0.20	22.0	10	38.64	90x157	LWC2W822MF157**
	10000	0.20	18.0	8	44.28	90x170	LWC2W103MF170**
500 2H (550)	1500	0.20	146.0	72	10.32	64x115	LWC2H152MD115**
	1800	0.20	130.0	60	12	64x130	LWC2H182MD130**
	2200	0.20	100.0	49	14.04	64x145	LWC2H222MD145**
	2700	0.20	80.0	39	18	77x115	LWC2H272ME115**
	3300	0.20	66.0	32	21	77x145	LWC2H332ME145**
	3900	0.20	56.0	27	24.24	77x155	LWC2H392ME155**
	4700	0.20	46.0	22	26.16	90x130	LWC2H472MF130**
	5600	0.20	38.0	18	30.36	90x157	LWC2H562MF157**
	6800	0.20	30.0	14	34.8	90x170	LWC2H682MF170**

*** Indicates mounting method, terminal diameter, internal teeth.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
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LWD series 85℃ 10000 hours





- Rohs requirements
- 85℃ 10000 hours,large ripple resistant series
- Used for industrial products such as switching power supplies, inverters, rectifiers, energy storage and other industrial products

■ Product description

Item	Characteristic	
Operating temperature range	-40℃ ~ +85℃	-25℃ ~ +85℃
Rated voltage(WV/V)	400V ~ 450V	460V ~ 500V
Capacitance(CAP/C)	1500 ~ 12000μF	
Tolerance(CAP/C)	±20% (25℃, 120Hz)	
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)	
Dissipation factor DF/tanδ(25℃, 120Hz)	≤0.20	
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6(400V ~ 450V)	
	C(-25℃/C(+25℃)≥0.7(460V ~ 500V)	
Implementation Standards	JIS C 5101-4	

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	10000h	>150000h	10000h	10000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

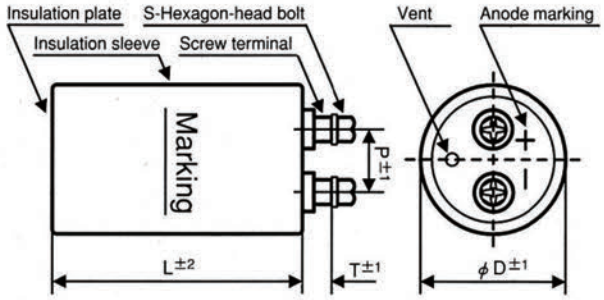
■ Ripple current correction factor

Temp.℃	40	60	70	85
Coefficient	1.89	1.67	1.5	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.8	1.00	1.10	1.30	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

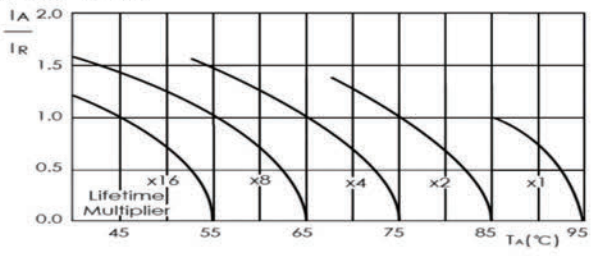
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 85°C
TA:Environment temp

■ LWD series:85℃ 10000 hours screw large ripple resistant capacitor

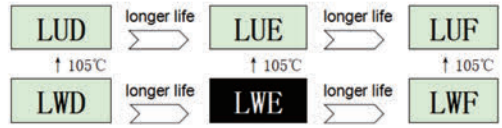
WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
400 2G (450)	2700	0.20	74.0	36	12	64x100	LWD2G272MD100***
	3300	0.20	65.0	21	13.2	64x115	LWD2G332MD115***
	3900	0.20	50.0	19	15.3	64x130	LWD2G392MD130***
	3900	0.20	50.0	24	16.2	77x115	LWD2G392ME115***
	4700	0.20	40.0	19	17.7	64x155	LWD2G472MD155***
	4700	0.20	40.0	19	17.7	77x115	LWD2G472ME115***
	5600	0.20	34.0	16	19.4	77x130	LWD2G562ME130***
	5600	0.20	34.0	16	19.4	90x130	LWD2G562MF130***
	6800	0.20	28.0	13	22.4	77x155	LWD2G682ME155***
	6800	0.20	28.0	13	22.4	90x130	LWD2G682MF130***
	8200	0.20	22.0	10	26.4	90x130	LWD2G822MF130***
	10000	0.20	18.0	8	29.0	90x157	LWD2G103MF157***
	12000	0.20	22.0	10	34.2	90x170	LWD2G123MF170***
450 2W (500)	2200	0.20	90.0	44	12.4	64x100	LWD2W222MD100**
	2200	0.20	90.0	44	13.8	77x96	LWD2W222ME096**
	2700	0.20	74.0	36	15.3	64x130	LWD2W272MD130**
	3300	0.20	58.0	28	18.4	64x155	LWD2W332MD155**
	3300	0.20	58.0	28	18.4	77x115	LWD2W332ME115**
	3900	0.20	52.0	25	18.9	64x155	LWD2W392MD155**
	3900	0.20	52.0	25	19.8	77x130	LWD2W392ME130**
	4700	0.20	40.0	19	21.6	77x145	LWD2W472ME145**
	4700	0.20	40.0	19	24.9	90x130	LWD2W472MF130**
	5600	0.20	34.0	16	26.1	77x155	LWD2W562ME155**
	5600	0.20	34.0	16	29.4	90x130	LWD2W562MF130**
	6800	0.20	28.0	13	29.8	90x157	LWD2W682MF157**
	8200	0.20	22.0	10	38.6	90x157	LWD2W822MF157**
	10000	0.20	18.0	8	44.2	90x170	LWD2W103MF170**
500 2H (550)	1500	0.20	146.0	72	10.3	64x115	LWD2H152MD115**
	1800	0.20	130.0	60	12	64x130	LWD2H182MD130**
	2200	0.20	100.0	49	14.4	64x145	LWD2H222MD145**
	2700	0.20	80.0	39	18	77x115	LWD2H272ME115**
	3300	0.20	66.0	32	21	77x145	LWD2H332ME145**
	3900	0.20	56.0	27	24.4	77x155	LWD2H392ME155**
	4700	0.20	46.0	22	26.6	90x130	LWD2H472MF130**
	5600	0.20	38.0	18	30.6	90x157	LWD2H562MF157**
	6800	0.20	30.0	14	34.8	90x170	LWD2H682MF170**

*** Indicates mounting method, terminal diameter, internal teeth.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

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LWE series 85℃ 12000 hours





- Rohs requirements
- 85℃ 12000 hours,large ripple resistant series
- Used for switching power supplies, inverters, medical electronics, photovoltaic solar energy, wind energy and other industrial products

■ Product description

Item	Characteristic
Operating temperature range	-40℃ ~ +85℃
Rated voltage(WV/V)	350V ~ 450V
Capacitance(CAP/C)	1000 ~ 15000μF
Tolerance(CAP/C)	±20% (25℃, 120Hz)
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)
Dissipation factor DF/tanδ(25℃, 120Hz)	≤0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6
	C(-25℃/C(+25℃)≥0.7

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	>12000h	>150000h	12000h	12000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage Applied current Application temperature	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
	IR	1.2×IR	IR	IR = 0	IR = 0	
	85℃	40℃	85℃	85℃	85℃	

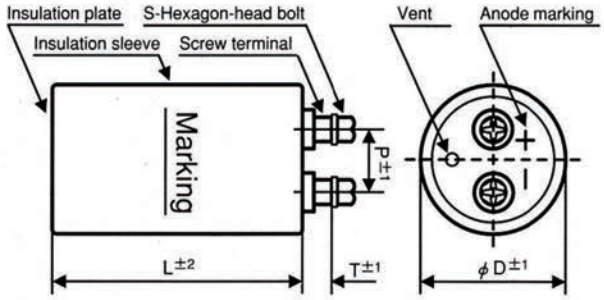
■ Ripple current correction factor

Temp.℃	40	55	60	85
Coefficient	1.89	1.76	1.67	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.8	1.00	1.10	1.30	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

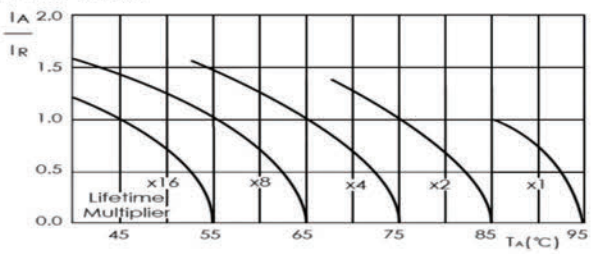
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	5.5	EP
64	28.6	M5×10	5.5	EP
77	31.4	M5×10	4.5	EP
90	31.4	M5×10	4.5	EP
101	41.5	M8×17	11.5	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 85°C
TA:Environment temp

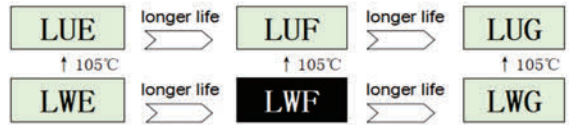
■ LWE series:85℃ 12000 hours screw large ripple resistant capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	1000	0.20	99	69	5.1	51x80	LWE2V102MC080***
	1200	0.20	90	63	5.7	51x80	LWE2V122MC080***
	1500	0.20	76	53	6.9	51x100	LWE2V152MC100***
	1800	0.20	60	42	7.7	51x100	LWE2V182MC100***
	2200	0.20	43	30	9.6	51x100	LWE2V222MC100***
	2700	0.20	36	25	10.3	64x96	LWE2V272MD096***
	3300	0.20	33	23	12.3	64x115	LWE2V332MD115***
	3900	0.20	26	18	14.0	64x130	LWE2V392MD130***
	4700	0.20	21	15	16.6	64x145	LWE2V472MD145***
	4700	0.20	23	16	15.5	77x115	LWE2V472ME115***
	5600	0.20	19	13	19.7	77x130	LWE2V562ME130***
	5600	0.20	20	14	17.8	77x155	LWE2V562ME155***
	6800	0.20	17	12	20.9	77x155	LWE2V682ME155***
	8200	0.20	16	11	24.6	90x157	LWE2V822MF157***
	10000	0.20	14	10	26.7	90x157	LWE2V103MF157***
	12000	0.20	11	8	32.1	90x196	LWE2V123MF196***
	15000	0.20	9	6	38.2	90x236	LWE2V153MF236***
400 2G (450)	1000	0.20	99	69	5.1	51x80	LWE2G153MC080***
	1200	0.20	90	63	6.2	51x100	LWE2G122MC100***
	1500	0.20	74	52	7.6	51x100	LWE2G152MC100***
	1800	0.20	60	42	8.8	51x100	LWE2G182MC100***
	2200	0.20	56	39	9.3	64x96	LWE2G222MD096***
	2700	0.20	53	37	11.1	64x115	LWE2G272MD115***
	3300	0.20	39	27	13.0	64x130	LWE2G332MD130***
	3900	0.20	36	25	15.0	64x145	LWE2G392MD145***
	3900	0.20	39	27	14.0	77x115	LWE2G392ME115***
	4700	0.20	27	19	18.1	64x145	LWE2G472MD145***
	4700	0.20	29	20	18.1	77x130	LWE2G472ME130***
	5600	0.20	26	18	19.4	77x145	LWE2G562ME145***
	5600	0.20	26	18	19.4	90x130	LWE2G562MF130***
	6800	0.20	21	15	22.3	90x157	LWE2G682MF157***
	8200	0.20	20	14	26.4	90x157	LWE2G822MF157***
	10000	0.20	16	11	29.3	90x196	LWE2G103MF196***
	12000	0.20	10	7	34.8	90x236	LWE2G123MF236***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	1000	0.20	99	69	5.8	51x100	LWE2W102MC100***
	1200	0.20	93	65	6.9	51x100	LWE2W122MC100***
	1500	0.20	74	52	8.0	51x100	LWE2W152MC100***
	1800	0.20	60	42	8.5	64x96	LWE2W182MD096***
	2200	0.20	57	40	10.1	64x115	LWE2W222MD115***
	2700	0.20	59	41	11.6	64x130	LWE2W272MD130***
	2700	0.20	57	40	11.9	77x115	LWE2W272ME115***
	3300	0.20	43	30	13.8	64x145	LWE2W332MD145***
	3300	0.20	46	32	13.8	77x130	LWE2W332ME130***
	3900	0.20	39	27	16.6	77x145	LWE2W392ME145***
	4700	0.20	33	23	21.6	77x155	LWE2W472ME155***
	5600	0.20	29	20	26.2	77x195	LWE2W562ME195***
	5600	0.20	31	22	29.0	90x157	LWE2W562MF157***
	6800	0.20	29	20	33.0	90x196	LWE2W682MF196***
	8200	0.20	24	17	38.6	90x196	LWE2W822MF196***
	10000	0.20	23	16	44.2	90x236	LWE2W103MF236***

*** Indicates mounting method, terminal diameter, internal teeth.
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LWF series 85℃ 15000 hours





- Rohs requirements
- 85℃ 15000 Hours,High ripple Series
- Used for switching power supplies, inverters, medical electronics, photovoltaic solar energy, wind energy and other industrial produ

■ Product description

Item	Characteristic
Operating temperature range	-40℃ ~ +85℃
Rated voltage(WV/V)	350V ~ 450V
Capacitance(CAP/C)	1000 ~ 15000μF
Tolerance(CAP/C)	±20% (25℃, 120Hz)
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)
Dissipation factor DF/tanδ(25℃, 120Hz)	≤0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6
	C(-25℃/C(+25℃)≥0.7

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	>15000h	>200000h	15000h	15000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

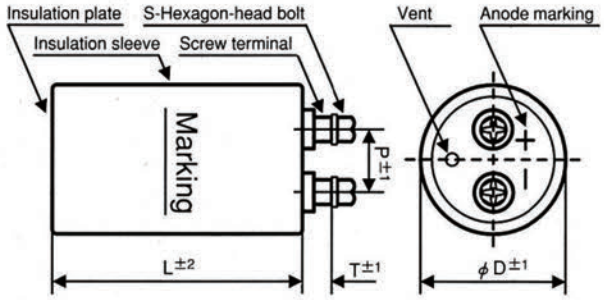
■ Ripple current correction factor

Temp.℃	40	55	60	85
Coefficient	1.89	1.76	1.67	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.8	1.00	1.10	1.30	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

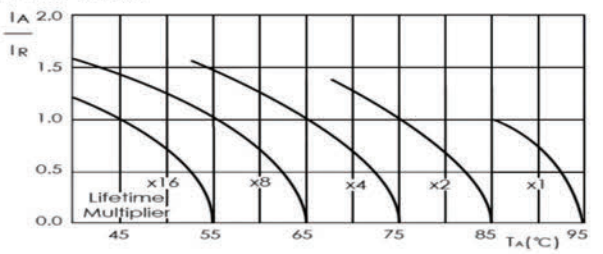
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	5.5	EP
64	28.6	M5×10	5.5	EP
77	31.4	M5×10	4.5	EP
90	31.4	M5×10	4.5	EP
101	41.5	M8×17	11.5	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 85°C
TA:Environment temp

■ LWF series:85℃ 15000 hours high ripple screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	1000	0.20	99	69	5.1	51x100	LWF2V102MC100***
	1200	0.20	90	63	5.7	51x100	LWF2V122MC100***
	1500	0.20	76	53	6.9	51x100	LWF2V152MC100***
	1800	0.20	60	42	7.7	64x115	LWF2V182MD115***
	2200	0.20	43	30	9.6	64x115	LWF2V222MD115***
	2700	0.20	36	25	10.3	64x115	LWF2V272MD115***
	3300	0.20	33	23	12.3	77x115	LWF2V332ME115***
	3900	0.20	26	18	14.0	77x130	LWF2V392ME130***
	4700	0.20	21	15	16.6	77x130	LWF2V472ME130***
	4700	0.20	23	16	15.5	77x145	LWF2V472ME145***
	5600	0.20	19	13	19.7	77x145	LWF2V562ME145***
	5600	0.20	20	14	17.8	77x155	LWF2V562ME155***
	6800	0.20	17	12	20.9	77x155	LWF2V682ME155***
	8200	0.20	16	11	24.6	90x157	LWF2V822MF157***
	10000	0.20	14	10	26.7	90x157	LWF2V103MF157***
	12000	0.20	11	8	32.1	90x196	LWF2V123MF196***
	15000	0.20	9	6	38.2	90x236	LWF2V153MF236***
400 2G (450)	1000	0.20	99	69	5.1	51x100	LWF2G153MC100***
	1200	0.20	90	63	6.2	51x100	LWF2G122MC100***
	1500	0.20	74	52	7.6	64x115	LWF2G152MD115***
	1800	0.20	60	42	8.8	64x115	LWF2G182MD115***
	2200	0.20	56	39	9.3	64x115	LWF2G222MD115***
	2700	0.20	53	37	11.1	77x115	LWF2G272ME115***
	3300	0.20	39	27	13.0	77x130	LWF2G332ME130***
	3900	0.20	36	25	15.0	77x130	LWF2G392ME130***
	3900	0.20	39	27	14.0	77x155	LWF2G392ME155***
	4700	0.20	27	19	18.1	64x130	LWF2G472MD130***
	4700	0.20	29	20	18.1	77x155	LWF2G472ME155***
	5600	0.20	26	18	19.4	77x155	LWF2G562ME155***
	5600	0.20	26	18	19.4	90x130	LWF2G562MF130***
	6800	0.20	21	15	22.3	90x157	LWF2G682MF157***
	8200	0.20	20	14	26.4	90x157	LWF2G822MF157***
	10000	0.20	16	11	29.3	90x196	LWF2G103MF196***
	12000	0.20	10	7	34.8	90x236	LWF2G123MF236***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	1000	0.20	99	69	5.8	51x100	LWF2W102MC100***
	1200	0.20	93	65	6.9	64x115	LWF2W122MD115***
	1500	0.20	74	52	8.0	64x115	LWF2W152MD115***
	1800	0.20	60	42	8.5	64x115	LWF2W182MD115***
	2200	0.20	57	40	10.1	77x115	LWF2W222ME115***
	2700	0.20	59	41	11.6	77x115	LWF2W272ME115***
	2700	0.20	57	40	11.9	77x130	LWF2W272ME130***
	3300	0.20	43	30	13.8	77x130	LWF2W332ME130***
	3300	0.20	46	32	13.8	77x150	LWF2W332ME155***
	3900	0.20	39	27	16.6	77x1455	LWF2W392ME155***
	4700	0.20	33	23	21.6	77x155	LWF2W472ME155***
	5600	0.20	29	20	26.2	77x195	LWF2W562ME195***
	5600	0.20	31	22	29.0	90x157	LWF2W562MF157***
	6800	0.20	29	20	33.0	90x196	LWF2W682MF196***
	8200	0.20	24	17	38.6	90x196	LWF2W822MF196***
	10000	0.20	23	16	44.2	90x236	LWF2W103MF236***

*** Indicates mounting method, terminal diameter, internal teeth.
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LWG series 85℃ 18000 hours

LUF longer life LUG longer life LUH
↑105℃ ↑105℃ ↑105℃
LWF longer life **LWG** longer life LWH

- Rohs requirements
- 85℃ 18000 hours,large ripple series
- Used for switching power supplies, inverters, medical electronics, photovoltaic solar energy, wind energy and other industrial products



■ Product description

Item	Characteristic
Operating temperature range	-40℃ ~ +85℃
Rated voltage(WV/V)	350V ~ 450V
Capacitance(CAP/C)	1000 ~ 15000μF
Tolerance(CAP/C)	±20% (25℃, 120Hz)
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)
Dissipation factor DF/tanδ(25℃, 120Hz)	≤0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6
	C(-25℃/C(+25℃)≥0.7

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	>18000h	>200000h	18000h	18000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

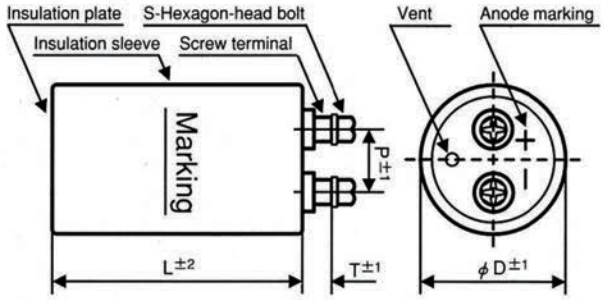
■ Ripple current correction factor

Temp.℃	40	55	60	85
Coefficient	1.89	1.76	1.67	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.8	1.00	1.10	1.30	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

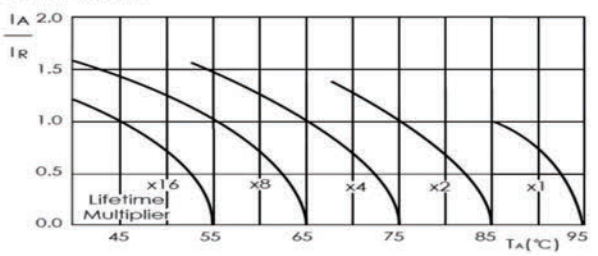
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	5.5	EP
64	28.6	M5×10	5.5	EP
77	31.4	M5×10	4.5	EP
90	31.4	M5×10	4.5	EP
101	41.5	M8×17	11.5	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 85°C
TA:Environment temp

■ LWG series:85℃ 18000 hours screw large ripple capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	1000	0.20	99	69	5.1	51x100	LWG2V102MC100***
	1200	0.20	90	63	5.7	51x100	LWG2V122MC100***
	1500	0.20	76	53	6.9	51x100	LWG2V152MC100***
	1800	0.20	60	42	7.7	64x115	LWG2V182MD115***
	2200	0.20	43	30	9.6	64x115	LWG2V222MD115***
	2700	0.20	36	25	10.3	64x115	LWG2V272MD115***
	3300	0.20	33	23	12.3	77x115	LWG2V332ME115***
	3900	0.20	26	18	14.0	77x130	LWG2V392ME130***
	4700	0.20	21	15	16.6	77x130	LWG2V472ME130***
	4700	0.20	23	16	15.5	77x145	LWG2V472ME145***
	5600	0.20	19	13	19.7	77x145	LWG2V562ME145***
	5600	0.20	20	14	17.8	77x155	LWG2V562ME155***
	6800	0.20	17	12	20.9	77x155	LWG2V682ME155***
	8200	0.20	16	11	24.6	90x157	LWG2V822MF157***
	10000	0.20	14	10	26.7	90x157	LWG2V103MF157***
	12000	0.20	11	8	32.1	90x196	LWG2V123MF196***
	15000	0.20	9	6	38.2	90x236	LWG2V153MF236***
400 2G (450)	1000	0.20	99	69	5.1	51x100	LWG2G153MC100***
	1200	0.20	90	63	6.2	51x100	LWG2G122MC100***
	1500	0.20	74	52	7.6	64x115	LWG2G152MD115***
	1800	0.20	60	42	8.8	64x115	LWG2G182MD115***
	2200	0.20	56	39	9.3	64x115	LWG2G222MD115***
	2700	0.20	53	37	11.1	77x115	LWG2G272ME115***
	3300	0.20	39	27	13.0	77x130	LWG2G332ME130***
	3900	0.20	36	25	15.0	77x130	LWG2G392ME130***
	3900	0.20	39	27	14.0	77x155	LWG2G392ME155***
	4700	0.20	27	19	18.1	64x130	LWG2G472MD130***
	4700	0.20	29	20	18.1	77x155	LWG2G472ME155***
	5600	0.20	26	18	19.4	77x155	LWG2G562ME155***
	5600	0.20	26	18	19.4	90x130	LWG2G562MF130***
	6800	0.20	21	15	23.0	90x157	LWG2G682MF157***
	8200	0.20	20	14	26.4	90x157	LWG2G822MF157***
	10000	0.20	16	11	29.3	90x196	LWG2G103MF196***
	12000	0.20	10	7	34.8	90x236	LWG2G123MF236***

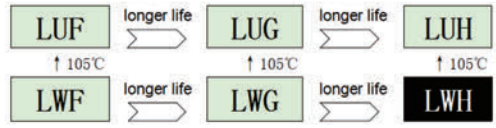
WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	1000	0.20	99	69	5.8	51x100	LWG2W102MC100***
	1200	0.20	93	65	6.9	64x115	LWG2W122MD115***
	1500	0.20	74	52	8.0	64x115	LWG2W152MD115***
	1800	0.20	60	42	8.5	64x115	LWG2W182MD115***
	2200	0.20	57	40	10.1	77x115	LWG2W222ME115***
	2700	0.20	59	41	11.6	77x115	LWG2W272ME115***
	2700	0.20	57	40	11.9	77x130	LWG2W272ME130***
	3300	0.20	43	30	13.8	77x130	LWG2W332ME130***
	3300	0.20	46	32	13.8	77x155	LWG2W332ME155***
	3900	0.20	39	27	16.6	77x155	LWG2W392ME155***
	4700	0.20	33	23	21.6	77x155	LWG2W472ME155***
	5600	0.20	29	20	26.2	77x195	LWG2W562ME195***
	5600	0.20	31	22	29.0	90x157	LWG2W562MF157***
	6800	0.20	29	20	33.0	90x196	LWG2W682MF196***
	8200	0.20	24	17	38.6	90x196	LWG2W822MF196***
	10000	0.20	23	16	44.2	90x236	LWG2W103MF236***

*** Indicates mounting method, terminal diameter, internal teeth.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

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LWH series 85℃ 20000 hours





- Rohs requirements
- 85℃ 20000 hours,large ripple resistant series
- Used for switching power supplies, inverters, medical electronics, photovoltaic solar energy, wind energy and other industrial products

■ Product description

Item	Characteristic
Operating temperature range	-40℃ ~ +85℃
Rated voltage(WV/V)	350V ~ 450V
Capacitance(CAP/C)	1000 ~ 15000μF
Tolerance(CAP/C)	±20% (25℃, 120Hz)
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)
Dissipation factor DF/tanδ(25℃, 120Hz)	≤0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6
	C(-25℃/C(+25℃)≥0.7

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	>20000h	>200000h	20000h	20000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	85℃	40℃	85℃	85℃	85℃	

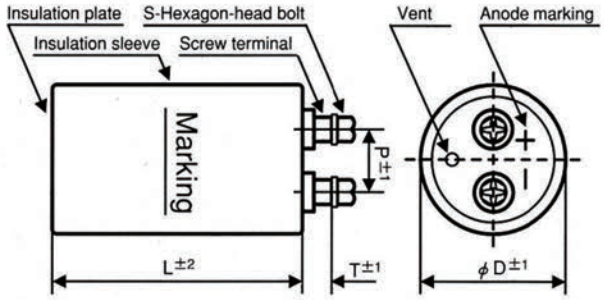
■ Ripple current correction factor

Temp.℃	40	55	60	85
Coefficient	1.89	1.76	1.67	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.8	1.00	1.10	1.30	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

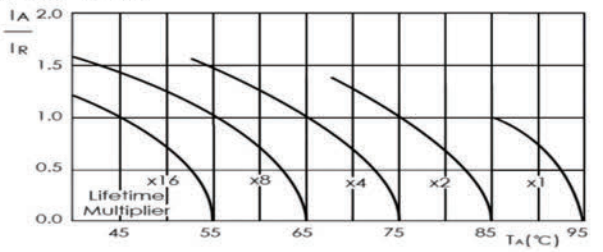
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	5.5	EP
64	28.6	M5×10	5.5	EP
77	31.4	M5×10	4.5	EP
90	31.4	M5×10	4.5	EP
101	41.5	M8×17	11.5	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 85°C
TA:Environment temp

■ LWH series:85℃ 20000 hours screw large ripple resistant capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	1000	0.20	99	69	5.1	51x100	LWH2V102MC100***
	1200	0.20	90	63	5.7	51x100	LWH2V122MC100***
	1500	0.20	76	53	6.9	51x100	LWH2V152MC100***
	1800	0.20	60	42	7.7	64x115	LWH2V182MD115***
	2200	0.20	43	30	9.6	64x115	LWH2V222MD115***
	2700	0.20	36	25	10.3	64x115	LWH2V272MD115***
	3300	0.20	33	23	12.3	77x115	LWH2V332ME115***
	3900	0.20	26	18	14.0	77x130	LWH2V392ME130***
	4700	0.20	21	15	16.6	77x130	LWH2V472ME130***
	4700	0.20	23	16	15.5	77x145	LWH2V472ME145***
	5600	0.20	19	13	19.7	77x145	LWH2V562ME145***
	5600	0.20	20	14	17.8	77x155	LWH2V562ME155***
	6800	0.20	17	12	20.9	77x155	LWH2V682ME155***
	8200	0.20	16	11	24.6	90x157	LWH2V822MF157***
	10000	0.20	14	10	26.7	90x157	LWH2V103MF157***
	12000	0.20	11	8	32.1	90x196	LWH2V123MF196***
	15000	0.20	9	6	38.2	90x236	LWH2V153MF236***
400 2G (450)	1000	0.20	99	69	5.1	51x100	LWH2G153MC100***
	1200	0.20	90	63	6.2	51x100	LWH2G122MC100***
	1500	0.20	74	52	7.6	64x115	LWH2G152MD115***
	1800	0.20	60	42	8.8	64x115	LWH2G182MD115***
	2200	0.20	56	39	9.3	64x115	LWH2G222MD115***
	2700	0.20	53	37	11.1	77x115	LWH2G272ME115***
	3300	0.20	39	27	13.0	77x130	LWH2G332ME130***
	3900	0.20	36	25	15.0	77x130	LWH2G392ME130***
	3900	0.20	39	27	14.0	77x155	LWH2G392ME155***
	4700	0.20	27	19	18.1	64x130	LWH2G472MD130***
	4700	0.20	29	20	18.1	77x155	LWH2G472ME155***
	5600	0.20	26	18	19.4	77x155	LWH2G562ME155***
	5600	0.20	26	18	19.4	90x130	LWH2G562MF130***
	6800	0.20	21	15	23.0	90x157	LWH2G682MF157***
	8200	0.20	20	14	26.4	90x157	LWH2G822MF157***
	10000	0.20	16	11	29.3	90x196	LWH2G103MF196***
	12000	0.20	10	7	34.8	90x236	LWH2G123MF236***

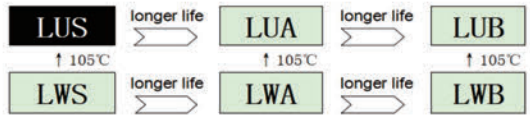
WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	1000	0.20	99	69	5.8	51x100	LWH2W102MC100***
	1200	0.20	93	65	6.9	64x115	LWH2W122MD115***
	1500	0.20	74	52	8.0	64x115	LWH2W152MD115***
	1800	0.20	60	42	8.5	64x115	LWH2W182MD115***
	2200	0.20	57	40	10.1	77x115	LWH2W222ME115***
	2700	0.20	59	41	11.6	77x115	LWH2W272ME115***
	2700	0.20	57	40	11.9	77x130	LWH2W272ME130***
	3300	0.20	43	30	13.8	77x130	LWH2W332ME130***
	3300	0.20	46	32	13.8	77x155	LWH2W332ME155***
	3900	0.20	39	27	16.6	77x155	LWH2W392ME155***
	4700	0.20	33	23	21.6	77x155	LWH2W472ME155***
	5600	0.20	29	20	26.2	77x195	LWH2W562ME195***
	5600	0.20	31	22	29.0	90x157	LWH2W562MF157***
	6800	0.20	29	20	33.0	90x196	LWH2W682MF196***
	8200	0.20	24	17	38.6	90x196	LWH2W822MF196***
	10000	0.20	23	16	44.2	90x236	LWH2W103MF236***

*** Indicates mounting method, terminal diameter, internal teeth.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

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LUS series 105℃ 2000 hours





- Rohs requirements
- 105℃ 2000 hours large ripple resistant series
- Used for switching power supplies, inverters, air conditioners, laser spot welders, and other industrial products

■ Product description

Item	Characteristic						
Operating temperature range	-40℃ ~ +105℃						
Rated voltage(WV/V)	25V ~ 450V						
Capacitance(CAP/C)	220 ~ 470000μF						
Tolerance(CAP/C)	±20% (25℃, 120Hz)						
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)						
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	25 ~ 35	50	63	80~100	160 ~ 200	250 ~ 450
	DF	See exact specifications				0.25	0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6						
	C(-25℃/C(+25℃)≥0.7						

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	4000h	>200000h	2000h	2000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

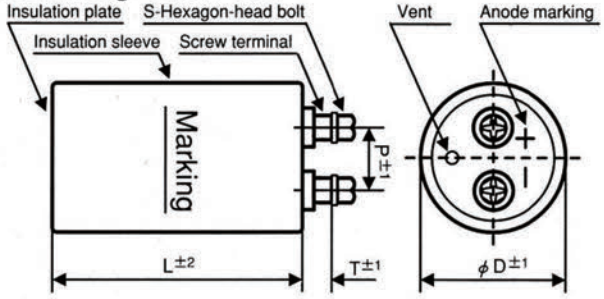
■ Ripple current correction factor

Temp.℃ / UR(V)	40	55	70	85	105
25 ~ 100	4.9	3.9	3.0	1.8	1.0
160 ~ 250	3.8	3.3	2.5	2.0	1.0
350 ~ 450	2.44	2.28	2.12	2.0	1.0

Freq. / UR(V)	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
25 ~ 100	0.95	1.00	1.04	1.10	1.15
160 ~ 250	0.90	1.00	1.08	1.15	1.20
350 ~ 450	0.80	1.00	1.18	1.35	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

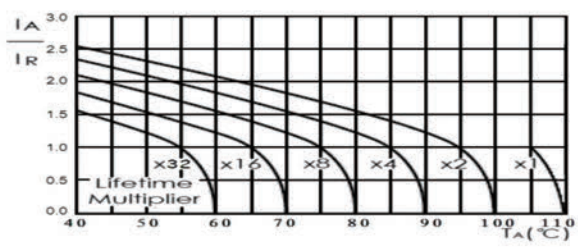
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 105°C
TA:Environment temp

■ LUS series:105℃ 2000 hours large ripple screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
25 1E (32)	10000	0.35	50	25	3.9	36x50	LUS1E103MA050***
	15000	0.35	40	20	5.7	36x80	LUS1E153MA080***
	22000	0.40	26	13	6.9	36x80	LUS1E223MA080***
	33000	0.40	24	12	8.5	36x100	LUS1E333MA100***
	47000	0.40	22	11	3.2	51x80	LUS1E473MC080***
	68000	0.50	20	10	13.5	51x115	LUS1E683MC115***
	100000	0.60	18	9	15.3	64x90	LUS1E104MD090***
	150000	0.80	16	8	17.4	64x115	LUS1E154MD115***
	220000	1.00	14	7	20.0	77x115	LUS1E224ME115***
	330000	1.00	12	6	26.9	90x130	LUS1E334MF130***
	470000	1.00	10	5	37.5	90x170	LUS1E474MF170***
35 1V (44)	6800	0.30	50	25	3.5	36x50	LUS1V682MA050***
	10000	0.30	40	20	5.0	36x80	LUS1V103MA080***
	15000	0.30	26	13	6.1	36x80	LUS1V153MA080***
	22000	0.35	20	10	7.4	36x100	LUS1V223MA100***
	47000	0.45	18	9	10.9	51x100	LUS1V473MC100***
	68000	0.50	16	8	13.5	51x100	LUS1V683MC100***
	100000	0.60	14	7	16.3	64x115	LUS1V104MD115***
	150000	0.70	12	6	18.6	77x115	LUS1V154ME115***
	220000	0.70	10	5	23.9	90x130	LUS1V224MF130***
	330000	0.70	8	4	29.0	90x157	LUS1V334MF157***
50 1H (63)	3300	0.25	100	50	3.1	36x50	LUS1H332MA050***
	4700	0.25	72	36	4.5	36x50	LUS1H472MA050***
	6800	0.25	64	32	4.6	36x80	LUS1H682MA080***
	10000	0.25	44	22	5.5	36x80	LUS1H103MA080***
	15000	0.30	28	14	6.6	36x100	LUS1H153MA100***
	22000	0.35	20	10	8.0	51x80	LUS1H223MC080***
	33000	0.40	14	7	10.5	51x100	LUS1H333MC100***
	47000	0.40	12	6	12.8	64x90	LUS1H473MD090***
	68000	0.45	12	6	12.8	64x115	LUS1H683MD115***
	100000	0.50	10	5	15.8	77x115	LUS1H104ME115***
	150000	0.50	6	3	25.8	90x130	LUS1H154MF130***
63 1J (79)	6800	0.20	50	25	5.1	36x80	LUS1J682MA080***
	10000	0.25	40	20	6.1	36x100	LUS1J103MA100***
	15000	0.25	28	14	7.8	51x80	LUS1J153MC080***
	22000	0.30	20	10	9.2	51x100	LUS1J223MC100***
	33000	0.30	14	7	12.4	64x96	LUS1J333MD096***
	47000	0.35	12	6	14.7	64x115	LUS1J473MD115***
	68000	0.40	10	5	17.6	77x115	LUS1J683ME115***
	100000	0.40	8	4	23.4	90x130	LUS1J104MF130***
	120000	0.40	7	4	26.7	90x157	LUS1J124MF157***
	150000	0.40	7	4	31.9	90x190	LUS1J154MF190***
	180000	0.40	7	4	35.2	90x220	LUS1J184MF220***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
80 1K (100)	2200	0.20	114	57	3.0	36x50	LUS1K222MA050***
	3300	0.20	76	38	4.2	36x80	LUS1K332MA080***
	4700	0.20	54	27	4.9	36x80	LUS1K472MA080***
	6800	0.20	38	19	5.4	36x100	LUS1K682MA100***
	15000	0.25	22	11	8.4	51x100	LUS1K153MC100***
	22000	0.25	16	8	11.1	64x96	LUS1K223MD096***
	33000	0.30	14	7	13.1	77x105	LUS1K333ME105***
	47000	0.30	12	6	16.9	77x115	LUS1K473ME115***
	68000	0.30	10	5	22.3	90x130	LUS1K683MF130***
100 2A (125)	1000	0.20	130	65	1.9	36x50	LUS2A102MS050***
	1500	0.20	110	55	2.3	36x50	LUS2A152MA050***
	2200	0.20	76	38	3.5	36x80	LUS2A222MA080***
	3300	0.20	50	25	4.1	36x80	LUS2A332MA080***
	4700	0.20	42	21	5.3	36x100	LUS2A472MA100***
	6800	0.20	38	19	6.8	51x80	LUS2A682MC080***
	10000	0.20	26	13	8.8	51x100	LUS2A103MC100***
	15000	0.20	18	9	10.3	64x96	LUS2A153MD096***
	22000	0.20	14	7	13.1	77x105	LUS2A223ME105***
	33000	0.25	12	6	15.9	77x130	LUS2A333ME130***
	47000	0.25	10	5	20.4	90x130	LUS2A473MF130***
	56000	0.25	8	4	24.6	90x157	LUS2A563MF157***
160 2C (200)	470	0.25	530	265	1.5	36x50	LUS2C471MA050***
	680	0.25	372	186	1.6	36x50	LUS2C681MA050***
	1000	0.25	250	125	2.3	36x80	LUS2C102MA080***
	1500	0.25	170	85	2.7	36x80	LUS2C152MA080***
	2200	0.25	110	55	3.6	36x100	LUS2C222MA100***
	3300	0.25	76	38	4.7	51x80	LUS2C332MC080***
	4700	0.25	70	35	5.9	51x100	LUS2C472MC100***
	6800	0.25	50	25	8.0	64x96	LUS2C682MD096***
	10000	0.25	30	15	10.4	77x105	LUS2C103ME105***
	15000	0.25	22	11	13.9	77x130	LUS2C153ME130***
	22000	0.25	12	6	18.0	90x130	LUS2C223MF130***
200 2D (250)	330	0.25	750	375	1.2	36x50	LUS2D331MA050***
	470	0.25	524	262	1.5	36x50	LUS2D471MA050***
	680	0.25	360	180	1.6	36x50	LUS2D681MA050***
	1000	0.25	250	125	2.3	36x80	LUS2D102MA080***
	1500	0.25	150	75	3.0	36x100	LUS2D152MA100***
	2200	0.25	100	50	3.8	51x80	LUS2D222MC080***
	3300	0.25	72	36	5.0	51x100	LUS2D332MC100***
	4700	0.25	48	24	6.6	64x96	LUS2D472MD096***
	6800	0.25	32	16	8.5	64x115	LUS2D682MD115***
	10000	0.25	24	12	11.1	77x115	LUS2D103ME115***
	15000	0.25	20	8	15.0	90x130	LUS2D153MF130***

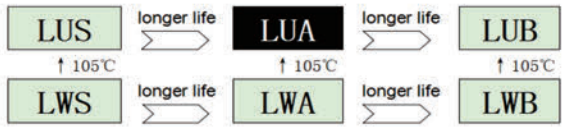
■ LUS series:105℃ 2000 hours large ripple screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	330	0.20	320	160	1.2	36x50	LUS2E331MA050***
	470	0.20	240	120	1.5	36x50	LUS2E471MA050***
	680	0.20	170	85	2.0	36x80	LUS2E681MA080***
	1000	0.20	110	55	2.6	36x100	LUS2E102MA100***
	1500	0.20	80	40	3.1	51x80	LUS2E152MC080***
	3300	0.20	40	20	5.7	64x96	LUS2E332MD096***
	4700	0.20	30	15	7.3	64x115	LUS2E472MD115***
	6800	0.20	20	10	9.3	64x115	LUS2E682MD115***
	10000	0.20	16	8	12.7	77x155	LUS2E103ME155***
	15000	0.20	12	6	16.6	90x157	LUS2E153MF157***
400 2G (450)	1000	0.20	164	82	4.9	51x80	LUS2G102MC080***
	1200	0.20	140	70	5.9	51x100	LUS2G122MC100***
	1500	0.20	98	49	6.8	51x100	LUS2G152MC100***
	1800	0.20	78	39	7.7	51x100	LUS2G182MC100***
	2200	0.20	60	30	8.5	51x100	LUS2G222MC100***
		0.20	60	30	8.5	64x96	LUS2G222MD096***
	2700	0.20	44	22	10.0	64x115	LUS2G272MD115***
		0.20	44	22	10.0	64x115	LUS2G272MD115***
	3300	0.20	40	20	11.7	64x130	LUS2G332MD130***
		0.20	40	20	11.7	77x105	LUS2G332ME105***
	3900	0.20	36	18	13.6	64x145	LUS2G392MD145***
		0.20	36	18	12.9	77x115	LUS2G392ME115***
	4700	0.20	26	13	16.4	64x145	LUS2G472MD145***
		0.20	26	13	14.7	77x130	LUS2G472ME130***
	5600	0.20	24	12	18.1	77 x145	LUS2G562ME145***
		0.20	24	12	17.4	77x155	LUS2G562ME155***
	6800	0.20	22	11	20.6	77x155	LUS2G682ME155***
		0.20	22	11	20.2	90x130	LUS2G682MF130***
	8200	0.20	20	10	21.7	77x170	LUS2G822ME170***
		0.20	20	10	22.3	90x145	LUS2G822MF145***
	10000	0.20	18	9	27.0	77x180	LUS2G103ME180***
		0.20	18	9	26.8	90x157	LUS2G103MF157***
	12000	0.20	16	8	29.9	77x220	LUS2G123ME220***
		0.20	16	8	29.5	90x170	LUS2G123MF170***
	15000	0.20	14	7	35.0	90x200	LUS2G153MF200***
		0.20	14	7	34.6	101 x155	LUS2G153MG155***
	18000	0.20	12	6	39.9	90x236	LUS2G183MF236***
		0.20	12	6	36.9	101 x190	LUS2G183MG190***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	220	0.20	830	415	1.6	36x50	LUS2W221MA050***
	270	0.20	736	368	1.9	36x60	LUS2W271MA060***
	330	0.20	554	277	2.2	36x80	LUS2W331MA080***
	470	0.20	390	195	2.8	51x80	LUS2W471MC080***
	560	0.20	342	171	3.2	51x80	LUS2W561MC080***
	680	0.20	270	135	3.6	51x80	LUS2W681MC080***
	820	0.20	224	112	4.9	51x80	LUS2W821MC080***
	1000	0.20	180	90	5.7	51x100	LUS2W102MC100***
	1200	0.20	140	70	6.5	51x100	LUS2W122MC100***
	1500	0.20	108	54	7.7	51x100	LUS2W152MC100***
	1800	0.20	86	43	8.8	51x100	LUS2W182MC100***
	2200	0.20	66	33	10.0	64 x96	LUS2W222MD096***
		0.20	66	33	9.9	64 x120	LUS2W222MD120***
	2700	0.20	56	28	11.9	64 x130	LUS2W272MD130***
		0.20	58	29	11.6	77 x105	LUS2W272ME105***
	3300	0.20	44	22	13.9	64 x145	LUS2W332MD145***
		0.20	46	23	13.6	77 x115	LUS2W332ME115***
	4700	0.20	36	18	17.3	77 x145	LUS2W472ME145***
		0.20	38	19	17.0	77 x155	LUS2W472ME155***
	5600	0.20	32	16	20.9	77 x155	LUS2W562ME155***
		0.20	34	17	21.5	90 x130	LUS2W562MF130***
	6800	0.20	30	15	22.0	77 x170	LUS2W682ME170***
		0.20	32	16	21.7	90 x130	LUS2W682MF130***
	8200	0.20	26	13	24.7	77 x190	LUS2W822ME190***
		0.20	28	14	24.6	90 x157	LUS2W822MF157***
	10000	0.20	22	11	27.4	77 x190	LUS2W103ME190***
		0.20	24	12	27.1	90 x157	LUS2W103MF157***
	12000	0.20	20	10	31.7	90 x190	LUS2W123MF190***
		0.20	22	11	31.5	101 x155	LUS2W123MG155***
	15000	0.20	18	9	34.2	90 x220	LUS2W153MF220***
		0.20	20	10	33.9	101 x190	LUS2W153MG190***

*** Indicates mounting method, terminal diameter, internal teeth.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
The content recorded in the catalog book may be changed without notification. Your company is requested to require us to provide specifications when purchasing and using, and use it as the standard.

LUA series 105℃ 3000 hours





- Rohs requirements
- 105℃ 3000 hours large ripple resistant series
- Used for switching power supplies, inverters, air conditioners, laser spot welders, and other industrial products

■ Product description

Item	Characteristic						
Operating temperature range	-40℃ ~ +105℃						
Rated voltage(WV/V)	25V ~ 450V						
Capacitance(CAP/C)	220 ~ 470000μF						
Tolerance(CAP/C)	±20% (25℃, 120Hz)						
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)						
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	25 ~ 35	50	63	80 ~ 100	160 ~ 200	250 ~ 450
	DF	See exact specifications				0.25	0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6						
	C(-25℃/C(+25℃)≥0.7						

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	6000h	>200000h	3000h	4000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

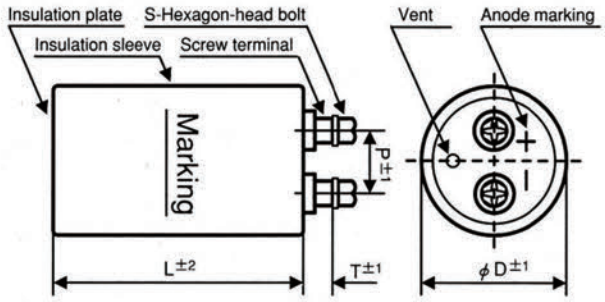
■ Ripple current correction factor

UR(V) \ Temp.℃	40	55	70	85	105
25 ~ 100	4.9	3.9	3.0	1.8	1.0
160 ~ 250	3.8	3.3	2.5	2.0	1.0
350 ~ 450	2.44	2.28	2.12	2.0	1.0

UR(V) \ Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
25 ~ 100	0.95	1.00	1.04	1.10	1.15
160 ~ 250	0.90	1.00	1.08	1.15	1.20
350 ~ 450	0.80	1.00	1.18	1.35	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

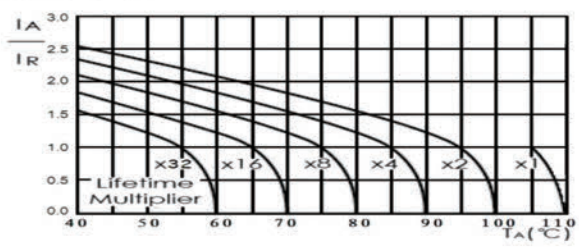
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 105°C
TA:Environment temp

■ LUA series:105℃ 3000 hours large ripple screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
25 1E (32)	10000	0.35	50	25	3.5	36x50	LUA1E103MA050***
	15000	0.35	40	20	5.0	36x80	LUA1E153MA080***
	22000	0.40	26	13	6.1	36x80	LUA1E223MA080***
	33000	0.40	24	12	7.6	36x100	LUA1E333MA100***
	47000	0.40	22	11	2.9	51x80	LUA1E473MC080***
	68000	0.50	20	10	12.0	51x115	LUA1E683MC115***
	100000	0.60	18	9	13.6	64x90	LUA1E104MD090***
	150000	0.80	16	8	15.5	64x115	LUA1E154MD115***
	220000	1.00	14	7	17.8	77x115	LUA1E224ME115***
	330000	1.00	12	6	23.9	90x130	LUA1E334MF130***
	470000	1.00	10	5	33.4	90x170	LUA1E474MF170***
35 1V (44)	6800	0.30	50	25	3.1	36x50	LUA1V682MA050***
	10000	0.30	40	20	4.4	36x80	LUA1V103MA080***
	15000	0.30	26	13	5.4	36x80	LUA1V153MA080***
	22000	0.35	20	10	6.6	36x100	LUA1V223MA100***
	47000	0.45	18	9	9.7	51x100	LUA1V473MC100***
	68000	0.50	16	8	12.0	51x100	LUA1V683MC100***
	100000	0.60	14	7	14.5	64x115	LUA1V104MD115***
	150000	0.70	12	6	16.6	77x115	LUA1V154ME115***
	220000	0.70	10	5	21.2	90x130	LUA1V224MF130***
	330000	0.70	8	4	25.8	90x157	LUA1V334MF157***
50 1H (63)	3300	0.25	100	50	2.8	36x50	LUA1H332MA050***
	4700	0.25	72	36	4.0	36x50	LUA1H472MA050***
	6800	0.25	64	32	4.1	36x80	LUA1H682MA080***
	10000	0.25	44	22	4.9	36x80	LUA1H103MA080***
	15000	0.30	28	14	5.9	36x100	LUA1H153MA100***
	22000	0.35	20	10	7.1	51x80	LUA1H223MC080***
	33000	0.40	14	7	9.4	51x100	LUA1H333MC100***
	47000	0.40	12	6	11.4	64x90	LUA1H473MD090***
	68000	0.45	12	6	11.4	64x115	LUA1H683MD115***
	100000	0.50	10	5	14.0	77x115	LUA1H104ME115***
	150000	0.50	6	3	22.9	90x130	LUA1H154MF130***
63 1J (79)	6800	0.20	50	25	4.6	36x80	LUA1J682MA080***
	10000	0.25	40	20	5.4	36x100	LUA1J103MA100***
	15000	0.25	28	14	7.0	51x80	LUA1J153MC080***
	22000	0.30	20	10	8.2	51x100	LUA1J223MC100***
	33000	0.30	14	7	11.0	64x96	LUA1J333MD096***
	47000	0.35	12	6	13.1	64x115	LUA1J473MD115***
	68000	0.40	10	5	15.6	77x115	LUA1J683ME115***
	100000	0.40	8	4	20.8	90x130	LUA1J104MF130***
	120000	0.40	7	4	23.8	90x157	LUA1J124MF157***
	150000	0.40	7	4	28.3	90x190	LUA1J154MF190***
	180000	0.40	7	4	31.3	90x220	LUA1J184MF220***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
80 1K (100)	2200	0.20	114	57	2.6	36x50	LUA1K222MA050***
	3300	0.20	76	38	3.7	36x80	LUA1K332MA080***
	4700	0.20	54	27	4.3	36x80	LUA1K472MA080***
	6800	0.20	38	19	4.8	36x100	LUA1K682MA100***
	15000	0.25	22	11	7.4	51x100	LUA1K153MC100***
	22000	0.25	16	8	9.8	64x96	LUA1K223MD096***
	33000	0.30	14	7	11.6	77x105	LUA1K333ME105***
	47000	0.30	12	6	15.0	77x115	LUA1K473ME115***
	68000	0.30	10	5	19.8	90x130	LUA1K683MF130***
100 2A (125)	1000	0.20	130	65	1.7	36x50	LUA2A102MS050***
	1500	0.20	110	55	2.0	36x50	LUA2A152MA050***
	2200	0.20	76	38	3.1	36x80	LUA2A222MA080***
	3300	0.20	50	25	3.6	36x80	LUA2A332MA080***
	4700	0.20	42	21	4.7	36x100	LUA2A472MA100***
	6800	0.20	38	19	6.0	51x80	LUA2A682MC080***
	10000	0.20	26	13	7.8	51x100	LUA2A103MC100***
	15000	0.20	18	9	9.1	64x96	LUA2A153MD096***
	22000	0.20	14	7	11.6	77x105	LUA2A223ME105***
	33000	0.25	12	6	14.2	77x130	LUA2A333ME130***
	47000	0.25	10	5	18.1	90x130	LUA2A473MF130***
	56000	0.25	8	4	21.8	90x157	LUA2A563MF157***
160 2C (200)	470	0.20	530	265	1.3	36x50	LUA2C471MA050***
	680	0.20	372	186	1.4	36x50	LUA2C681MA050***
	1000	0.20	250	125	2.0	36x80	LUA2C102MA080***
	1500	0.20	170	85	2.4	36x80	LUA2C152MA080***
	2200	0.20	110	55	3.2	36x100	LUA2C222MA100***
	3300	0.20	76	38	4.2	51x80	LUA2C332MC080***
	4700	0.20	70	35	5.3	51x100	LUA2C472MC100***
	6800	0.20	50	25	7.1	64x96	LUA2C682MD096***
	10000	0.20	30	15	9.2	77x105	LUA2C103ME105***
	15000	0.20	22	11	12.4	77x130	LUA2C153ME130***
	22000	0.20	12	6	16.0	90x130	LUA2C223MF130***
200 2D (250)	330	0.20	750	375	1.1	36x50	LUA2D331MA050***
	470	0.20	524	262	1.3	36x50	LUA2D471MA050***
	680	0.20	360	180	1.4	36x50	LUA2D681MA050***
	1000	0.20	250	125	2.0	36x80	LUA2D102MA080***
	1500	0.20	150	75	2.6	36x100	LUA2D152MA100***
	2200	0.20	100	50	3.4	51x80	LUA2D222MC080***
	3300	0.20	72	36	4.4	51x100	LUA2D332MC100***
	4700	0.20	48	24	5.9	64x96	LUA2D472MD096***
	6800	0.20	32	16	7.6	64x115	LUA2D682MD115***
	10000	0.20	24	12	9.8	77x115	LUA2D103ME115***
	15000	0.20	20	8	13.3	90x130	LUA2D153MF130***

■ LUA series:105℃ 3000 hours large ripple screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	330	0.20	320	160	1.1	36x50	LUA2E331MA050***
	470	0.20	240	120	1.3	36x50	LUA2E471MA050***
	680	0.20	170	85	1.8	36x80	LUA2E681MA080***
	1000	0.20	110	55	2.3	36x100	LUA2E102MA100***
	1500	0.20	80	40	2.8	51x80	LUA2E152MC080***
	3300	0.20	40	20	5.0	64x96	LUA2E332MD096***
	4700	0.20	30	15	6.5	64x115	LUA2E472MD115***
	6800	0.20	20	10	8.3	64x115	LUA2E682MD115***
	10000	0.20	16	8	11.3	77x155	LUA2E103ME155***
	15000	0.20	12	6	14.8	90x157	LUA2E153MF157***
400 2G (450)	1000	0.20	164	82	4.9	51x80	LUA2G102MC080***
	1200	0.20	140	70	5.9	51x100	LUA2G122MC100***
	1500	0.20	98	49	6.8	51x100	LUA2G152MC100***
	1800	0.20	78	39	7.7	51x100	LUA2G182MC100***
	2200	0.20	60	30	8.5	51x100	LUA2G222MC100***
		0.20	60	30	8.5	64x96	LUA2G222MD096***
	2700	0.20	44	22	10.0	64x115	LUA2G272MD115***
		0.20	44	22	10.0	64x115	LUA2G272MD115***
	3300	0.20	40	20	11.7	64x130	LUA2G332MD130***
		0.20	40	20	11.7	77x105	LUA2G332ME105***
	3900	0.20	36	18	13.6	64x145	LUA2G392MD145***
		0.20	36	18	12.9	77x115	LUA2G392ME115***
	4700	0.20	26	13	16.4	64x145	LUA2G472MD145***
		0.20	26	13	14.7	77x130	LUA2G472ME130***
	5600	0.20	24	12	18.1	77 x145	LUA2G562ME145***
		0.20	24	12	17.4	77x155	LUA2G562ME155***
	6800	0.20	22	11	20.6	77x155	LUA2G682ME155***
		0.20	22	11	20.2	90x130	LUA2G682MF130***
	8200	0.20	20	10	21.7	77x170	LUA2G822ME170***
		0.20	20	10	22.3	90x145	LUA2G822MF145***
	10000	0.20	18	9	27.0	77x180	LUA2G103ME180***
		0.20	18	9	26.8	90x157	LUA2G103MF157***
	12000	0.20	16	8	29.9	77x220	LUA2G123ME220***
		0.20	16	8	29.5	90x170	LUA2G123MF170***
	15000	0.20	14	7	35.0	90x200	LUA2G153MF200***
		0.20	14	7	34.6	101 x155	LUA2G153MG155***
	18000	0.20	12	6	39.9	90x236	LUA2G183MF236***
		0.20	12	6	36.9	101 x190	LUA2G183MG190***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	220	0.20	830	415	1.6	36x50	LUA2W221MA050***
	270	0.20	736	368	1.9	36x60	LUA2W271MA060***
	330	0.20	554	277	2.2	36x80	LUA2W331MA080***
	470	0.20	390	195	2.8	51x80	LUA2W471MC080***
	560	0.20	342	171	3.2	51x80	LUA2W561MC080***
	680	0.20	270	135	3.6	51x80	LUA2W681MC080***
	820	0.20	224	112	4.9	51x80	LUA2W821MC080***
	1000	0.20	180	90	5.7	51x100	LUA2W102MC100***
	1200	0.20	140	70	6.5	51x100	LUA2W122MC100***
	1500	0.20	108	54	7.7	51x100	LUA2W152MC100***
	1800	0.20	86	43	8.8	51x100	LUA2W182MC100***
	2200	0.20	66	33	10.0	64 x96	LUA2W222MD096***
		0.20	66	33	9.9	64 x120	LUA2W222MD120***
	2700	0.20	56	28	11.9	64 x130	LUA2W272MD130***
		0.20	58	29	11.6	77 x105	LUA2W272ME105***
	3300	0.20	44	22	13.9	64 x145	LUA2W332MD145***
		0.20	46	23	13.6	77 x115	LUA2W332ME115***
	4700	0.20	36	18	17.3	77 x145	LUA2W472ME145***
		0.20	38	19	17.0	77 x155	LUA2W472ME155***
	5600	0.20	32	16	20.9	77 x155	LUA2W562ME155***
		0.20	34	17	21.5	90 x130	LUA2W562MF130***
	6800	0.20	30	15	22.0	77 x170	LUA2W682ME170***
		0.20	32	16	21.7	90 x130	LUA2W682MF130***
	8200	0.20	26	13	24.7	77 x190	LUA2W822ME190***
		0.20	28	14	24.6	90 x157	LUA2W822MF157***
	10000	0.20	22	11	27.4	77 x190	LUA2W103ME190***
		0.20	24	12	27.1	90 x157	LUA2W103MF157***
	12000	0.20	20	10	31.7	90 x190	LUA2W123MF190***
		0.20	22	11	31.5	101 x155	LUA2W123MG155***
	15000	0.20	18	9	34.2	90 x220	LUA2W153MF220***
		0.20	20	10	33.9	101 x190	LUA2W153MG190***

*** Indicates mounting method, terminal diameter, internal teeth.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

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LUB series 105℃ 5000 hours

LUA longer life LUB longer life LUC
↑105℃ ↑105℃ ↑105℃
LWA longer life LWB longer life LWC



- Rohs requirements
- 105℃ 5000 hours large ripple resistant series
- Used for switching power supplies, inverters, laser spot welders, and large ripple-resistant products

■ Product description

Item	Characteristic
Operating temperature range	-40℃ ~ +105℃
Rated voltage(WV/V)	350V ~ 450V
Capacitance(CAP/C)	1000 ~ 15000μF
Tolerance(CAP/C)	±20% (25℃, 120Hz)
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)
Dissipation factor DF/tanδ(25℃, 120Hz)	350 ~ 450
	≤0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6
	C(-25℃/C(+25℃)≥0.7

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	7000h	>200000h	5000h	5000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

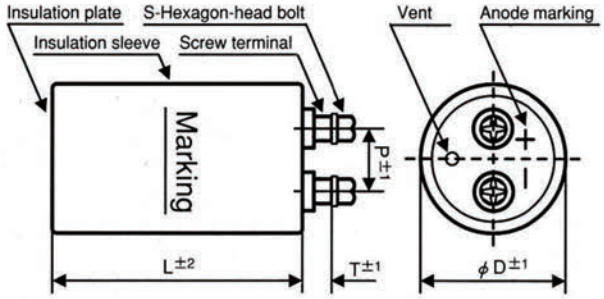
■ Ripple current correction factor

Temp.℃	40	60	85	105
Coefficient	2.24	2.16	2.0	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.8	1.0	1.10	1.30	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

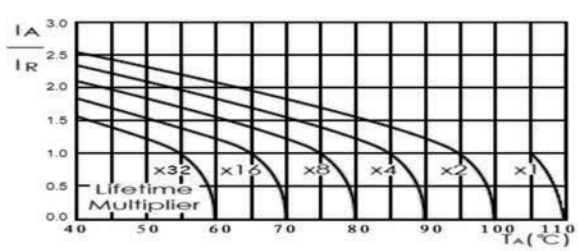
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 105°C
TA:Environment temp

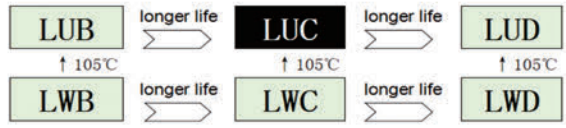
■ LUB series:105℃ 5000 hours large ripple screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	1000	0.20	136	68	5.4	51x75	LUB2V102MC075***
	1200	0.20	108	54	6.9	51x75	LUB2V122MC075***
	1500	0.20	108	54	8.3	51x96	LUB2V152MC096***
	1800	0.20	88	44	9.8	51x96	LUB2V182MC096***
	2200	0.20	60	30	11.3	51x130	LUB2V222MC130***
	2700	0.20	54	27	12.8	64x96	LUB2V272MD096***
	3300	0.20	54	23	14.5	64x115	LUB2V332MD115***
	3900	0.20	46	19	16.7	64x130	LUB2V392MD130***
	4700	0.20	39	17	19.8	77x155	LUB2V472ME155***
	4700	0.20	39	17	19.2	77x115	LUB2V472ME115***
	5600	0.20	32	14	21.9	77x130	LUB2V562ME130***
	5600	0.20	32	14	22.1	77x155	LUB2V562ME155***
	6800	0.20	27	13	26.3	77x155	LUB2V682ME155***
	8200	0.20	22	11	29.4	90x157	LUB2V822MF157***
	10000	0.20	18	10	32.4	90x157	LUB2V103MF157***
	12000	0.20	16	8	39.2	90x170	LUB2V123MF170***
	15000	0.20	12	6	45.5	90x190	LUB2V153MF190***
400 2G (450)	1000	0.20	138	69	5.6	51x75	LUB2G102MC075***
	1200	0.20	126	63	7.1	51x96	LUB2G122MC096***
	1500	0.20	104	52	8.5	51x115	LUB2G152MC115***
	1800	0.20	84	42	10.1	51x130	LUB2G182MC130***
	2200	0.20	80	40	11.5	64x96	LUB2G222MD096***
	2700	0.20	56	28	13.3	64x115	LUB2G272MD115***
	3300	0.20	46	23	15.2	64x130	LUB2G332MD130***
	3900	0.20	39	21	18.1	64x155	LUB2G392MD155***
	3900	0.20	39	21	18.3	77x115	LUB2G392ME115***
	4700	0.20	32	17	20.2	64x190	LUB2G472MD190***
	4700	0.20	32	17	20.3	77x130	LUB2G472ME130***
	5600	0.20	27	15	23.9	64x190	LUB2G562MD190***
	5600	0.20	27	15	24.1	77x155	LUB2G562ME155***
	6800	0.20	22	13	26.7	90x157	LUB2G682MF157***
	8200	0.20	18	11	29.5	90x157	LUB2G822MF157***
	10000	0.20	15	9	35.8	90x190	LUB2G103MF190***
	12000	0.20	13	8	38.1	90x220	LUB2G123MF220***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	1000	0.20	138	69	5.7	51x96	LUB2W102MC096***
	1200	0.20	130	65	7.2	51x115	LUB2W122MC115***
	1500	0.20	104	52	8.6	51x130	LUB2W152MC130***
	1800	0.20	84	42	10.2	64x96	LUB2W182MD096***
	2200	0.20	69	38	11.9	64x115	LUB2W222MD115***
	2700	0.20	56	31	13.8	64x130	LUB2W272MD130***
	2700	0.20	56	31	14.6	77x115	LUB2W272ME115***
	3300	0.20	46	23	16.7	64x155	LUB2W332MD155***
	3300	0.20	46	24	17.1	77x130	LUB2W332ME130***
	3900	0.20	39	21	19.5	77x155	LUB2W392ME155***
	4700	0.20	32	18	21.8	77x155	LUB2W472ME155***
	5600	0.20	27	16	26.6	77x190	LUB2W562ME190***
	5600	0.20	27	16	27.1	90x157	LUB2W562MF157***
	6800	0.20	22	14	29.7	90x190	LUB2W682MF190***
	8200	0.20	19	12	32.6	90x190	LUB2W822MF190***
	10000	0.20	17	11	35.8	90x220	LUB2W103MF220***

*** Indicates mounting method, terminal diameter, internal teeth.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
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LUC series 105℃ 8000 hours





- Rohs requirements
- 105℃ 8000 hours large ripple resistant series
- Used in switching power supplies, inverters, rectifiers, energy storage and other industrial products

■ Product description

Item	Characteristic						
Operating temperature range	-40℃ ~ +105℃						
Rated voltage(WV/V)	25V ~ 450V						
Capacitance(CAP/C)	220 ~ 470000μF						
Tolerance(CAP/C)	±20% (25℃, 120Hz)						
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)						
Dissipation factor DF/tanδ(25℃, 120Hz)	UR(V)	25 ~ 35	50	63	80 ~ 100	160 ~ 200	250 ~ 450
	DF	See exact specifications				0.25	0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6						
	C(-25℃/C(+25℃)≥0.7						

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	8000h	>200000h	8000h	8000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

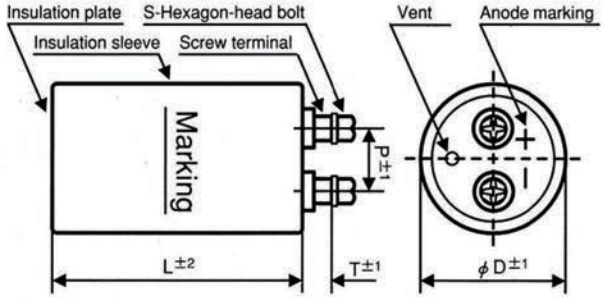
■ Ripple current correction factor

Temp.℃ / UR(V)	40	55	70	85	105
25 ~ 100	4.9	3.9	3.0	1.8	1.0
160 ~ 250	3.8	3.3	2.5	2.0	1.0
350 ~ 450	2.44	2.28	2.12	2.0	1.0

Freq. / UR(V)	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
25 ~ 100	0.95	1.00	1.04	1.10	1.15
160 ~ 250	0.90	1.00	1.08	1.15	1.20
350 ~ 450	0.80	1.00	1.18	1.35	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

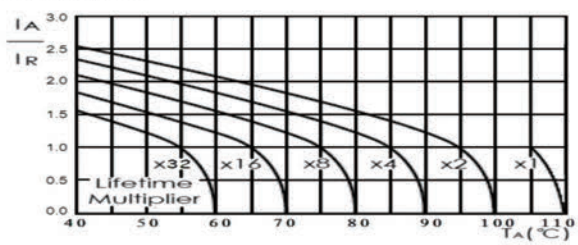
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 105°C
TA:Environment temp

■ LUC series:105℃ 8000 hours high ripple screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
25 1E (32)	10000	0.35	50	25	3.5	36x50	LUC1E103MA050***
	15000	0.35	40	20	5.0	36x80	LUC1E153MA080***
	22000	0.40	26	13	6.1	36x80	LUC1E223MA080***
	33000	0.40	24	12	7.6	36x100	LUC1E333MA100***
	47000	0.40	22	11	2.9	51x80	LUC1E473MC080***
	68000	0.50	20	10	12.0	51x115	LUC1E683MC115***
	100000	0.60	18	9	13.6	64x90	LUC1E104MD090***
	150000	0.80	16	8	15.5	64x115	LUC1E154MD115***
	220000	1.00	14	7	17.8	77x115	LUC1E224ME115***
	330000	1.00	12	6	23.9	90x130	LUC1E334MF130***
	470000	1.00	10	5	33.4	90x170	LUC1E474MF170***
35 1V (44)	6800	0.30	50	25	3.1	36x50	LUC1V682MA050***
	10000	0.30	40	20	4.4	36x80	LUC1V103MA080***
	15000	0.30	26	13	5.4	36x80	LUC1V153MA080***
	22000	0.35	20	10	6.6	36x100	LUC1V223MA100***
	47000	0.45	18	9	9.7	51x100	LUC1V473MC100***
	68000	0.50	16	8	12.0	51x100	LUC1V683MC100***
	100000	0.60	14	7	14.5	64x115	LUC1V104MD115***
	150000	0.70	12	6	16.6	77x115	LUC1V154ME115***
	220000	0.70	10	5	21.2	90x130	LUC1V224MF130***
	330000	0.70	8	4	25.8	90x157	LUC1V334MF157***
50 1H (63)	3300	0.25	100	50	2.8	36x50	LUC1H332MA050***
	4700	0.25	72	36	4.0	36x50	LUC1H472MA050***
	6800	0.25	64	32	4.1	36x80	LUC1H682MA080***
	10000	0.25	44	22	4.9	36x80	LUC1H103MA080***
	15000	0.30	28	14	5.9	36x100	LUC1H153MA100***
	22000	0.35	20	10	7.1	51x80	LUC1H223MC080***
	33000	0.40	14	7	9.4	51x100	LUC1H333MC100***
	47000	0.40	12	6	11.4	64x90	LUC1H473MD090***
	68000	0.45	12	6	11.4	64x115	LUC1H683MD115***
	100000	0.50	10	5	14.0	77x115	LUC1H104ME115***
	150000	0.50	6	3	22.9	90x130	LUC1H154MF130***
63 1J (79)	6800	0.20	50	25	4.6	36x80	LUC1J682MA080***
	10000	0.25	40	20	5.4	36x100	LUC1J103MA100***
	15000	0.25	28	14	7.0	51x80	LUC1J153MC080***
	22000	0.30	20	10	8.2	51x100	LUC1J223MC100***
	33000	0.30	14	7	11.0	64x96	LUC1J333MD096***
	47000	0.35	12	6	13.1	64x115	LUC1J473MD115***
	68000	0.40	10	5	15.6	77x115	LUC1J683ME115***
	100000	0.40	8	4	20.8	90x130	LUC1J104MF130***
	120000	0.40	7	4	23.8	90x157	LUC1J124MF157***
	150000	0.40	7	4	28.3	90x190	LUC1J154MF190***
	180000	0.40	7	4	31.3	90x220	LUC1J184MF220***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
80 1K (100)	2200	0.30	114	57	2.6	36x50	LUC1K222MA050***
	3300	0.30	76	38	3.7	36x80	LUC1K332MA080***
	4700	0.30	54	27	4.3	36x80	LUC1K472MA080***
	6800	0.30	38	19	4.8	36x100	LUC1K682MA100***
	15000	0.30	22	11	7.4	51x100	LUC1K153MC100***
	22000	0.30	16	8	9.8	64x96	LUC1K223MD096***
	33000	0.30	14	7	11.6	77x105	LUC1K333ME105***
	47000	0.30	12	6	15.0	77x115	LUC1K473ME115***
	68000	0.30	10	5	19.8	90x130	LUC1K683MF130***
100 2A (125)	1000	0.30	130	65	1.7	36x50	LUC2A102MS050***
	1500	0.30	110	55	2.0	36x50	LUC2A152MA050***
	2200	0.30	76	38	3.1	36x80	LUC2A222MA080***
	3300	0.30	50	25	3.6	36x80	LUC2A332MA080***
	4700	0.30	42	21	4.7	36x100	LUC2A472MA100***
	6800	0.30	38	19	6.0	51x80	LUC2A682MC080***
	10000	0.30	26	13	7.8	51x100	LUC2A103MC100***
	15000	0.30	18	9	9.1	64x96	LUC2A153MD096***
	22000	0.30	14	7	11.6	77x105	LUC2A223ME105***
	33000	0.30	12	6	14.2	77x130	LUC2A333ME130***
	47000	0.30	10	5	18.1	90x130	LUC2A473MF130***
	56000	0.30	8	4	21.8	90x157	LUC2A563MF157***
160 2C (200)	470	0.25	530	265	1.3	36x50	LUC2C471MA050***
	680	0.25	372	186	1.4	36x50	LUC2C681MA050***
	1000	0.25	250	125	2.0	36x80	LUC2C102MA080***
	1500	0.25	170	85	2.4	36x80	LUC2C152MA080***
	2200	0.25	110	55	3.2	36x100	LUC2C222MA100***
	3300	0.25	76	38	4.2	51x80	LUC2C332MC080***
	4700	0.25	70	35	5.3	51x100	LUC2C472MC100***
	6800	0.25	50	25	7.1	64x96	LUC2C682MD096***
	10000	0.25	30	15	9.2	77x105	LUC2C103ME105***
	15000	0.25	22	11	12.4	77x130	LUC2C153ME130***
	22000	0.25	12	6	16.0	90x130	LUC2C223MF130***
200 2D (250)	330	0.25	750	375	1.1	36x50	LUC2D331MA050***
	470	0.25	524	262	1.3	36x50	LUC2D471MA050***
	680	0.25	360	180	1.4	36x50	LUC2D681MA050***
	1000	0.25	250	125	2.0	36x80	LUC2D102MA080***
	1500	0.25	150	75	2.6	36x100	LUC2D152MA100***
	2200	0.25	100	50	3.4	51x80	LUC2D222MC080***
	3300	0.25	72	36	4.4	51x100	LUC2D332MC100***
	4700	0.25	48	24	5.9	64x96	LUC2D472MD096***
	6800	0.25	32	16	7.6	64x115	LUC2D682MD115***
	10000	0.25	24	12	9.8	77x115	LUC2D103ME115***
	15000	0.25	20	8	13.3	90x130	LUC2D153MF130***

■ LUC series:105℃ 8000 hours high ripple screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	330	0.25	320	160	1.1	36x50	LUC2E331MA050***
	470	0.25	240	120	1.3	36x50	LUC2E471MA050***
	680	0.25	170	85	1.8	36x80	LUC2E681MA080***
	1000	0.25	110	55	2.3	36x100	LUC2E102MA100***
	1500	0.25	80	40	2.8	51x80	LUC2E152MC080***
	3300	0.25	40	20	5.0	64x96	LUC2E332MD096***
	4700	0.25	30	15	6.5	64x115	LUC2E472MD115***
	6800	0.25	20	10	8.3	64x115	LUC2E682MD115***
	10000	0.25	16	8	11.3	77x155	LUC2E103ME155***
	15000	0.25	12	6	14.8	90x157	LUC2E153MF157***
400 2G (450)	1000	0.20	164	82	6.1	51x80	LUC2G102MC080***
	1200	0.20	140	70	7.3	51x100	LUC2G122MC100***
	1500	0.20	98	49	8.4	51x100	LUC2G152MC100***
	1800	0.20	78	39	9.6	51x100	LUC2G182MC100***
	2200	0.20	60	30	10.5	51x100	LUC2G222MC100***
		0.20	60	30	10.5	64x96	LUC2G222MD096***
	2700	0.20	44	22	12.4	64x115	LUC2G272MD115***
		0.20	44	22	12.4	64x115	LUC2G272MD115***
	3300	0.20	40	20	14.5	64x130	LUC2G332MD130***
		0.20	40	20	14.5	77x105	LUC2G332ME105***
	3900	0.20	36	18	16.8	64x145	LUC2G392MD145***
		0.20	36	18	15.9	77x115	LUC2G392ME115***
	4700	0.20	26	13	20.4	64x145	LUC2G472MD145***
		0.20	26	13	18.3	77x130	LUC2G472ME130***
	5600	0.20	24	12	22.5	77 x145	LUC2G562ME145***
		0.20	24	12	21.5	77x155	LUC2G562ME155***
	6800	0.20	22	11	25.5	77x155	LUC2G682ME155***
		0.20	22	11	25.0	90x130	LUC2G682MF130***
	8200	0.20	20	10	29.8	77x170	LUC2G822ME170***
		0.20	20	10	27.6	90x145	LUC2G822MF145***
	10000	0.20	18	9	33.5	77x180	LUC2G103ME180***
		0.20	18	9	33.2	90x157	LUC2G103MF157***
	12000	0.20	16	8	37.0	77x220	LUC2G123ME220***
		0.20	16	8	36.5	90x170	LUC2G123MF170***
	15000	0.20	14	7	43.3	90x200	LUC2G153MF200***
		0.20	14	7	42.8	101 x155	LUC2G153MG155***
	18000	0.20	12	6	49.4	90x236	LUC2G183MF236***
		0.20	12	6	45.6	101 x190	LUC2G183MG190***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	220	0.20	830	415	2.0	36x50	LUC2W221MA050***
	270	0.20	736	368	2.4	36x60	LUC2W271MA060***
	330	0.20	554	277	2.7	36x80	LUC2W331MA080***
	470	0.20	390	195	3.5	51x80	LUC2W471MC080***
	560	0.20	342	171	4.0	51x80	LUC2W561MC080***
	680	0.20	270	135	4.5	51x80	LUC2W681MC080***
	820	0.20	224	112	6.0	51x80	LUC2W821MC080***
	1000	0.20	180	90	7.1	51x100	LUC2W102MC100***
	1200	0.20	140	70	8.1	51x100	LUC2W122MC100***
	1500	0.20	108	54	9.6	51x100	LUC2W152MC100***
	1800	0.20	86	43	10.9	51x100	LUC2W182MC100***
	2200	0.20	66	33	12.4	64 x96	LUC2W222MD096***
		0.20	66	33	12.3	64 x120	LUC2W222MD120***
	2700	0.20	56	28	14.8	64 x130	LUC2W272MD130***
		0.20	58	29	14.4	77 x105	LUC2W272ME105***
	3300	0.20	44	22	17.3	64 x145	LUC2W332MD145***
		0.20	46	23	17.0	77 x115	LUC2W332ME115***
	4700	0.20	36	18	21.5	77 x145	LUC2W472ME145***
		0.20	38	19	21.2	77 x155	LUC2W472ME155***
	5600	0.20	32	16	26.0	77 x155	LUC2W562ME155***
		0.20	34	17	26.7	90 x130	LUC2W562MF130***
	6800	0.20	30	15	27.4	77 x170	LUC2W682ME170***
		0.20	32	16	27.0	90 x130	LUC2W682MF130***
	8200	0.20	26	13	30.7	77 x190	LUC2W822ME190***
		0.20	28	14	30.6	90 x157	LUC2W822MF157***
	10000	0.20	22	11	34.1	77 x220	LUC2W103ME220***
		0.20	24	12	33.8	90 x157	LUC2W103MF157***
	12000	0.20	20	10	39.5	90 x190	LUC2W123MF190***
		0.20	22	11	39.1	101 x155	LUC2W123MG155***
	15000	0.20	18	9	42.5	90x220	LUC2W153MF220***
		0.20	20	10	42.2	101 x190	LUC2W153MG190***

*** Indicates mounting method, terminal diameter, internal teeth.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

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LUD series 105℃ 10000 hours

LUC longer life LUD longer life LUE
↑ 105℃ ↑ 105℃ ↑ 105℃
LWC longer life LWD longer life LWE



- Rohs requirements
- 105℃ 10000 hours large ripple resistant series
- Used for switching power supplies, inverters, laser spot welders, and large ripple-resistant products

■ Product description

Item	Characteristic
Operating temperature range	-40℃ ~ +105℃
Rated voltage(WV/V)	350V ~ 450V
Capacitance(CAP/C)	1000 ~ 15000μF
Tolerance(CAP/C)	±20% (25℃, 120Hz)
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)
Dissipation factor DF/tanδ(25℃, 120Hz)	350 ~ 450
	≤0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6
	C(-25℃/C(+25℃)≥0.7

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	12000h	>220000h	10000h	10000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

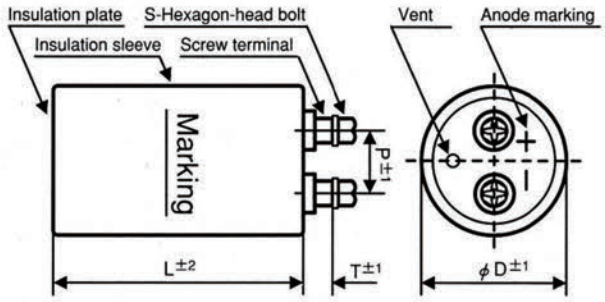
■ Ripple current correction factor

Temp.℃	40	60	85	105
Coefficient	2.24	2.16	2.0	1.0

Freq.	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.8	1.0	1.10	1.30	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

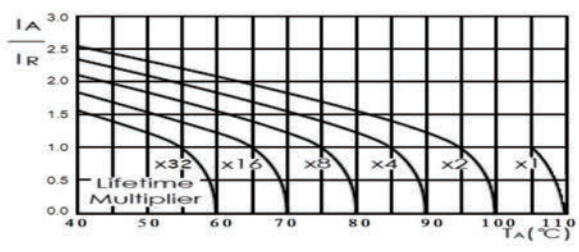
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 105°C
TA:Environment temp

■ LUD series:105℃ 10000 hours high ripple screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2V (400)	1000	0.20	136	68	5.4	51x75	LUD2V102MC075***
	1200	0.20	108	54	6.9	51x75	LUD2V122MC075***
	1500	0.20	108	54	8.3	51x96	LUD2V152MC096***
	1800	0.20	88	44	9.8	51x96	LUD2V182MC096***
	2200	0.20	60	30	11.3	51x130	LUD2V222MC130***
	2700	0.20	54	27	12.8	64x96	LUD2V272MD096***
	3300	0.20	54	23	14.5	64x115	LUD2V332MD115***
	3900	0.20	46	19	16.7	64x130	LUD2V392MD130***
	4700	0.20	39	17	19.8	77x155	LUD2V472ME155***
	4700	0.20	39	17	19.2	77x115	LUD2V472ME115***
	5600	0.20	32	14	21.9	77x130	LUD2V562ME130***
	5600	0.20	32	14	22.1	77x155	LUD2V562ME155***
	6800	0.20	27	13	26.3	77x155	LUD2V682ME155***
	8200	0.20	22	11	29.4	90x157	LUD2V822MF157***
	10000	0.20	18	10	32.4	90x157	LUD2V103MF157***
	12000	0.20	16	8	39.2	90x170	LUD2V123MF170***
	15000	0.20	12	6	45.5	90x190	LUD2V153MF190***
400 2G (450)	1000	0.20	176	88	5.8	51x75	LUD2G153MC075***
	1200	0.20	126	63	7.1	51x96	LUD2G122MC096***
	1500	0.20	104	52	8.5	51x115	LUD2G152MC115***
	1800	0.20	84	42	10.1	51x130	LUD2G182MC130***
	2200	0.20	80	40	11.5	64x96	LUD2G222MD096***
	2700	0.20	56	28	13.3	64x115	LUD2G272MD115***
	3300	0.20	46	23	15.2	64x130	LUD2G332MD130***
	3900	0.20	39	21	18.1	64x155	LUD2G392MD155***
	3900	0.20	39	21	18.3	77x115	LUD2G392ME115***
	4700	0.20	32	17	20.2	64x190	LUD2G472MD190***
	4700	0.20	32	17	20.3	77x130	LUD2G472ME130***
	5600	0.20	27	15	23.9	64x190	LUD2G562MD190***
	5600	0.20	27	15	24.1	77x155	LUD2G562ME155***
	6800	0.20	22	13	26.7	90x157	LUD2G682MF157***
	8200	0.20	18	11	29.5	90x157	LUD2G822MF157***
	10000	0.20	15	9	35.8	90x190	LUD2G103MF190***
	12000	0.20	13	8	38.1	90x220	LUD2G123MF220***

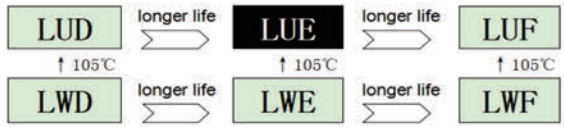
WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	1000	0.20	138	69	5.7	51x96	LUD2W102MC096***
	1200	0.20	130	65	7.2	51x115	LUD2W122MC115***
	1500	0.20	104	52	8.6	51x130	LUD2W152MC130***
	1800	0.20	84	42	10.2	64x96	LUD2W182MD096***
	2200	0.20	69	38	11.9	64x115	LUD2W222MD115***
	2700	0.20	56	31	13.8	64x130	LUD2W272MD130***
	2700	0.20	56	31	14.6	77x115	LUD2W272ME115***
	3300	0.20	46	23	16.7	64x155	LUD2W332MD155***
	3300	0.20	46	24	17.1	77x130	LUD2W332ME130***
	3900	0.20	39	21	19.5	77x155	LUD2W392ME155***
	4700	0.20	32	18	21.8	77x155	LUD2W472ME155***
	5600	0.20	27	16	26.6	77x190	LUD2W562ME190***
	5600	0.20	27	16	27.1	90x157	LUD2W562MF157***
	6800	0.20	22	14	29.7	90x190	LUD2W682MF190***
	8200	0.20	19	12	32.6	90x190	LUD2W822MF190***
	10000	0.20	17	11	35.8	90x220	LUD2W103MF220***

*** Indicates mounting method, terminal diameter, internal teeth.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

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LUE series 105℃ 12000 hours





- Rohs requirements
- 105℃ 12000 hours,high ripple series
- Used for industrial products such as switching power supplies, inverters, rectifiers, energy storage and other industrial products

■ Product description

Item	Characteristic
Operating temperature range	-40℃ ~ +105℃
Rated voltage(WV/V)	250V ~ 450V
Capacitance(CAP/C)	220 ~ 18000μF
Tolerance(CAP/C)	±20% (25℃, 120Hz)
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)
Dissipation factor DF/tanδ(25℃, 120Hz)	250 ~ 450
	≤0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6
	C(-25℃/C(+25℃)≥0.7

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	12000h	>220000h	12000h	12000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

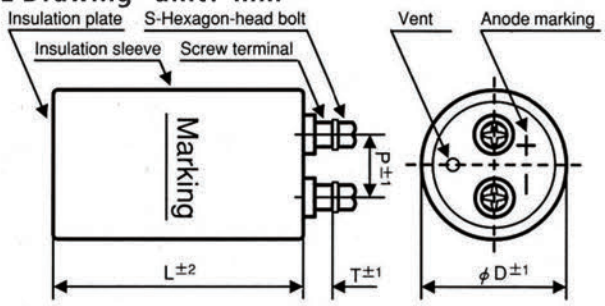
■ Ripple current correction factor

Temp.℃ / UR(V)	40	55	70	85	105
25 ~ 100	4.9	3.9	3.0	1.8	1.0
160 ~ 250	3.8	3.3	2.5	2.0	1.0
350 ~ 450	2.44	2.28	2.12	2.0	1.0

Freq. / UR(V)	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
25 ~ 100	0.95	1.00	1.04	1.10	1.15
160 ~ 250	0.90	1.00	1.08	1.15	1.20
350 ~ 450	0.80	1.00	1.18	1.35	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

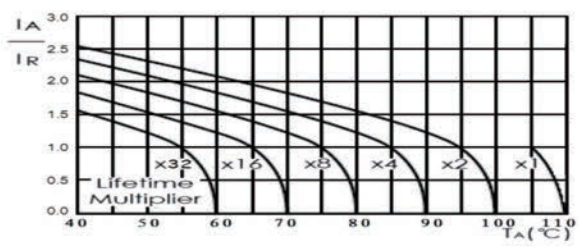
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 105°C
TA:Environment temp

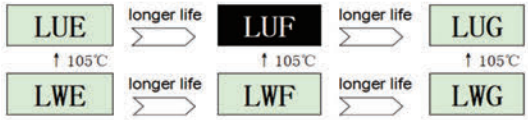
■ LUE series:105℃ 12000 hours high ripple screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	330	0.20	804	320	1.2	36x50	LUE2E331MA050***
	470	0.20	564	240	1.5	36x50	LUE2E471MA050***
	680	0.20	390	170	2.1	36x80	LUE2E681MA080***
	1000	0.20	265	110	2.5	36x100	LUE2E102MA100***
	1500	0.20	176	80	3.1	51x80	LUE2E152MC080***
	3300	0.20	80	40	5.6	64x96	LUE2E332MD096***
	4700	0.20	56	30	7.3	64x115	LUE2E472MD115***
	6800	0.20	39	20	9.3	64x115	LUE2E682MD115***
	10000	0.20	26	16	12.7	77x155	LUE2E103ME155***
	15000	0.20	17	12	16.6	90x157	LUE2E153MF157***
400 2G (450)	1000	0.20	265	164	6.1	51x80	LUE2G102MC080***
	1200	0.20	221	140	7.3	51x100	LUE2G122MC100***
	1500	0.20	176	98	8.4	51x100	LUE2G152MC100***
	1800	0.20	147	78	9.6	64x96	LUE2G182MC096***
	2200	0.20	120	60	10.5	64x96	LUE2G222MC096***
		0.20	120	60	10.5	64x115	LUE2G182MD115***
	2700	0.20	98	44	12.4	64x115	LUE2G272MD115***
		0.20	98	44	12.4	64x115	LUE2G272MD115***
	3300	0.20	80	40	14.5	64x130	LUE2G332MD130***
		0.20	80	40	14.5	77x105	LUE2G332ME105***
	3900	0.20	68	36	16.8	64x145	LUE2G392MD145***
		0.20	68	36	15.9	77x115	LUE2G392ME115***
	4700	0.20	56	26	20.4	77 x145	LUE2G472ME145***
		0.20	56	26	18.3	90x130	LUE2G472MF130***
	5600	0.20	47	24	22.5	77 x155	LUE2G562ME155***
		0.20	47	24	21.5	90x130	LUE2G562MF130***
	6800	0.20	39	22	25.5	77x190	LUE2G682ME190***
		0.20	39	22	25.0	90x130	LUE2G682MF130***
	8200	0.20	32	20	29.8	77x200	LUE2G822ME200***
		0.20	32	20	27.6	90x157	LUE2G822MF157***
	10000	0.20	26	18	33.5	77x240	LUE2G103ME240***
		0.20	26	18	33.2	90x196	LUE2G103MF196***
	12000	0.20	22	16	37.0	101 x196	LUE2G123MG196***
	15000	0.20	17	12	43.3	101 x236	LUE2G153MG236***
	18000	0.20	14	10	49.6	101 x250	LUE2G183MG250***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	220	0.20	1206	830	2.0	36x50	LUE2W221MA050***
	270	0.20	982	736	2.4	36x60	LUE2W271MA060***
	330	0.20	804	554	2.7	36x80	LUE2W331MA080***
	470	0.20	564	390	3.5	51x80	LUE2W471MC080***
	560	0.20	473	342	4.0	51x80	LUE2W561MC080***
	680	0.20	390	270	4.5	51x80	LUE2W681MC080***
	820	0.20	323	224	6.0	51x80	LUE2W821MC080***
	1000	0.20	265	180	7.1	51x100	LUE2W102MC100***
	1200	0.20	221	140	8.1	51x100	LUE2W122MC100***
	1500	0.20	176	108	9.6	51x100	LUE2W152MC100***
	1800	0.20	147	86	10.9	51x100	LUE2W182MC100***
	2200	0.20	120	66	12.4	64 x115	LUE2W222MD115***
		0.20	120	66	12.3	77 x100	LUE2W222ME100***
	2700	0.20	98	56	14.8	64 x130	LUE2W272MD130***
		0.20	98	58	14.4	77 x105	LUE2W272ME105***
	3300	0.20	80	44	17.3	64 x145	LUE2W332MD145***
		0.20	80	46	17.0	77 x115	LUE2W332ME115***
	4700	0.20	56	36	21.5	77 x145	LUE2W472ME145***
		0.20	56	36	21.2	90 x130	LUE2W472MF130***
	5600	0.20	47	32	26.0	77 x170	LUE2W562ME170***
		0.20	47	32	26.7	90 x157	LUE2W562MF157***
	6800	0.20	39	30	27.4	77 x195	LUE2W682ME195***
		0.20	39	30	27.0	90 x157	LUE2W682MF157***
	8200	0.20	32	20	30.7	77 x220	LUE2W822ME220***
		0.20	32	20	30.6	90 x196	LUE2W822MF196***
	10000	0.20	26	18	34.1	77 x236	LUE2W103ME236***
		0.20	26	18	33.8	90 x220	LUE2W103MF220***
	12000	0.20	22	16	39.5	90 x236	LUE2W123MF236***
		0.20	22	16	39.1	101 x196	LUE2W123MG196***
	15000	0.20	17	12	42.5	90 x250	LUE2W153MF250***
		0.20	20	10	42.2	101 x236	LUE2W153MG236***

*** Indicates mounting method, terminal diameter, internal teeth.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
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LUF series 105℃ 15000 hours





- **Rohs Requirements**
- **105℃ 15000 hours,large ripple resistant series**
- **Used for industrial products such as switching power supplies, inverters, rectifiers, energy storage and other industrial products**

■ Product description

Item	Characteristic
Operating temperature range	-40℃ ~ +105℃
Rated voltage(WV/V)	250V ~ 450V
Capacitance(CAP/C)	220 ~ 18000μF
Tolerance(CAP/C)	±20% (25℃, 120Hz)
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)
Dissipation factor DF/tanδ(25℃, 120Hz)	250 ~ 450
	≤0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6
	C(-25℃/C(+25℃)≥0.7

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	15000h	>220000h	15000h	15000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

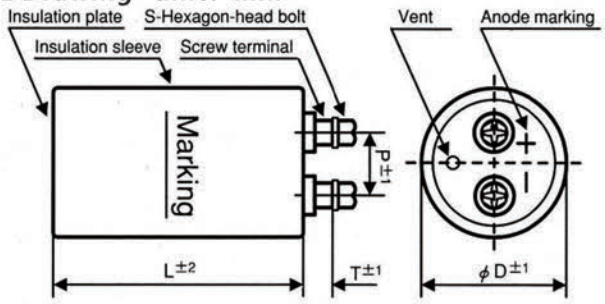
■ Ripple current correction factor

Temp.℃ / UR(V)	40	55	70	85	105
25 ~ 100	4.9	3.9	3.0	1.8	1.0
160 ~ 250	3.8	3.3	2.5	2.0	1.0
350 ~ 450	2.44	2.28	2.12	2.0	1.0

Freq. / UR(V)	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
25 ~ 100	0.95	1.00	1.04	1.10	1.15
160 ~ 250	0.90	1.00	1.08	1.15	1.20
350 ~ 450	0.80	1.00	1.18	1.35	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

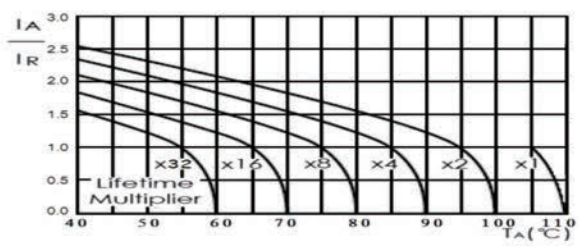
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 105°C
TA:Environment temp

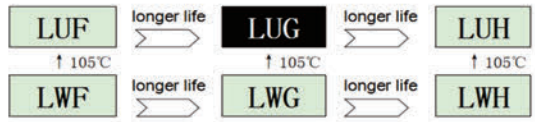
■ LUF series : 105℃ 15000 hours high ripple screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	330	0.20	804	320	1.2	36x80	LUF2V331MA080***
	470	0.20	564	240	1.5	36x80	LUF2V471MA080***
	680	0.20	390	170	2.1	51x100	LUF2V681MC100***
	1000	0.20	265	110	2.5	51x100	LUF2V102MA100***
	1500	0.20	176	80	3.1	51x10	LUF2V152MC100***
	3300	0.20	80	40	5.6	64x96	LUF2V332MD096***
	4700	0.20	56	30	7.3	77x115	LUF2V472ME115***
	6800	0.20	39	20	9.3	77x115	LUF2V682ME115***
	10000	0.20	26	16	12.7	90x157	LUF2V103ME157***
	15000	0.20	17	12	16.6	90x196	LUF2V153MF196***
400 2G (450)	1000	0.20	265	164	6.1	51x80	LUF2G102MC080***
	1200	0.20	221	140	7.3	51x100	LUF2G122MC100***
	1500	0.20	176	98	8.4	51x100	LUF2G152MC100***
	1800	0.20	147	78	9.6	64x96	LUF2G182MD096***
	2200	0.20	120	60	10.5	64x96	LUF2G222MD096***
		0.20	120	60	10.5	64x115	LUF2G222MD115***
	2700	0.20	98	44	12.4	64x115	LUF2G272MD115***
		0.20	98	44	12.4	77x100	LUF2G272ME100***
	3300	0.20	80	40	14.5	64x130	LUF2G332MD130***
		0.20	80	40	14.5	77x105	LUF2G332ME105***
	3900	0.20	68	36	16.8	64x145	LUF2G392MD145***
		0.20	68	36	15.9	77x115	LUF2G392ME115***
	4700	0.20	56	26	20.4	77 x145	LUF2G472ME145***
		0.20	56	26	18.3	90x130	LUF2G472MF130***
	5600	0.20	47	24	22.5	77 x155	LUF2G562ME155***
		0.20	47	24	21.5	90x130	LUF2G562MF130***
	6800	0.20	39	22	25.5	77x190	LUF2G682ME190***
		0.20	39	22	25.0	90x130	LUF2G682MF130***
	8200	0.20	32	20	29.8	77x200	LUF2G822ME200***
		0.20	32	20	27.6	90x157	LUF2G822MF157***
	10000	0.20	26	18	33.5	77x240	LUF2G103ME240***
		0.20	26	18	33.2	90x196	LUF2G103MF196***
	12000	0.20	22	16	37.0	101 x196	LUF2G123MG196***
	15000	0.20	17	12	43.3	101 x236	LUF2G153MG236***
	18000	0.20	14	10	49.6	101 x250	LUF2G183MG250***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	220	0.20	1206	830	2.0	36x50	LUF2W221MA050***
	270	0.20	982	736	2.4	36x60	LUF2W271MA060***
	330	0.20	804	554	2.7	36x80	LUF2W331MA080***
	470	0.20	564	390	3.5	51x80	LUF2W471MC080***
	560	0.20	473	342	4.0	51x80	LUF2W561MC080***
	680	0.20	390	270	4.5	51x80	LUF2W681MC080***
	820	0.20	323	224	6.0	51x80	LUF2W821MC080***
	1000	0.20	265	180	7.1	51x100	LUF2W102MC100***
	1200	0.20	221	140	8.1	51x100	LUF2W122MC100***
	1500	0.20	176	108	9.6	51x100	LUF2W152MC100***
	1800	0.20	147	86	10.9	51x100	LUF2W182MC100***
	2200	0.20	120	66	12.4	64 x115	LUF2W222MD115***
		0.20	120	66	12.3	77 x100	LUF2W222ME100***
	2700	0.20	98	56	14.8	64 x130	LUF2W272MD130***
		0.20	98	58	14.4	77 x105	LUF2W272ME105***
	3300	0.20	80	44	17.3	64 x145	LUF2W332MD145***
		0.20	80	46	17.0	77 x115	LUF2W332ME115***
	4700	0.20	56	36	21.5	77 x145	LUF2W472ME145***
		0.20	56	36	21.2	90 x130	LUF2W472MF130***
	5600	0.20	47	32	26.0	77 x170	LUF2W562ME170***
		0.20	47	32	26.7	90 x157	LUF2W562MF157***
	6800	0.20	39	30	27.4	77 x195	LUF2W682ME195***
		0.20	39	30	27.0	90 x157	LUF2W682MF157***
	8200	0.20	32	20	30.7	77 x220	LUF2W822ME220***
		0.20	32	20	30.6	90 x196	LUF2W822MF196***
	10000	0.20	26	18	34.1	77 x236	LUF2W103ME236***
		0.20	26	18	33.8	90 x220	LUF2W103MF220***
	12000	0.20	22	16	39.5	90 x236	LUF2W123MF236***
		0.20	22	16	39.1	101 x196	LUF2W123MG196***
	15000	0.20	17	12	42.5	90 x250	LUF2W153MF250***
		0.20	20	10	42.2	101 x236	LUF2W153MG236***

*** Indicates mounting method, terminal diameter, internal teeth.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
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LUG series 105℃ 18000 hours





- Rohs requirements
- 105℃ 18000 hours,large ripple resistant series
- Used for industrial products such as switching power supplies, inverters, rectifiers, energy storage and other industrial products

■ Product description

Item	Characteristic
Operating temperature range	-40℃ ~ +105℃
Rated voltage(WV/V)	250V ~ 450V
Capacitance(CAP/C)	220 ~ 18000μF
Tolerance(CAP/C)	±20% (25℃, 120Hz)
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)
Dissipation factor DF/tanδ(25℃, 120Hz)	250 ~ 450
	≤0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6
	C(-25℃/C(+25℃)≥0.7

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	18000h	>220000h	18000h	18000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

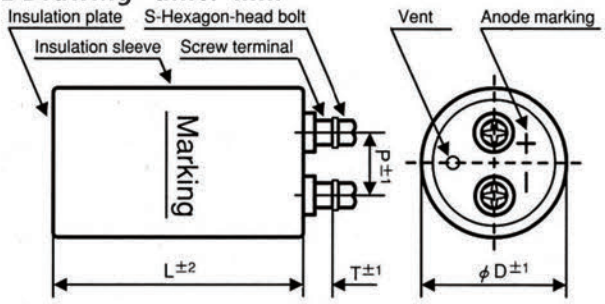
■ Ripple current correction factor

Temp.℃ / UR(V)	40	55	70	85	105
25 ~ 100	4.9	3.9	3.0	1.8	1.0
160 ~ 250	3.8	3.3	2.5	2.0	1.0
350 ~ 450	2.44	2.28	2.12	2.0	1.0

Freq. / UR(V)	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
25 ~ 100	0.95	1.00	1.04	1.10	1.15
160 ~ 250	0.90	1.00	1.08	1.15	1.20
350 ~ 450	0.80	1.00	1.18	1.35	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

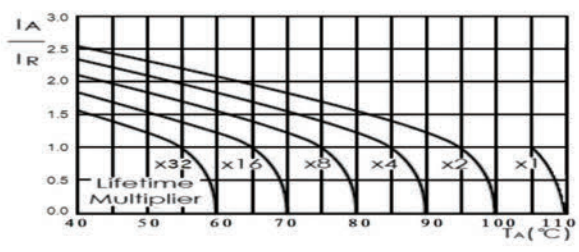
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 105°C
TA:Environment temp

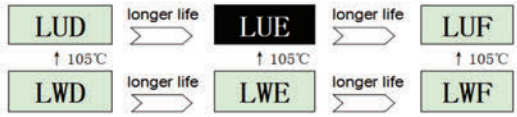
■ LUG:105℃ 18000 hours long lifetime,high ripple screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
250 2E (300)	330	0.20	804	320	1.2	36x50	LUG2E331MA050***
	470	0.20	564	240	1.5	36x50	LUG2E471MA050***
	680	0.20	390	170	2	36x80	LUG2E681MA080***
	1000	0.20	265	110	2.6	36x100	LUG2E102MA100***
	1500	0.20	176	80	3.1	51x80	LUG2E152MC080***
	3300	0.20	80	40	5.7	64x96	LUG2E332MD096***
	4700	0.20	56	30	7.3	64x115	LUG2E472MD115***
	6800	0.20	39	20	9.3	64x115	LUG2E682MD115***
	10000	0.20	26	16	12.7	77x155	LUG2E103ME155***
	15000	0.20	17	12	16.6	90x157	LUG2E153MF157***
400 2G (450)	1000	0.20	265	164	6.1	51x80	LUG2G102MC080***
	1200	0.20	221	140	7.3	51x100	LUG2G122MC100***
	1500	0.20	176	98	8.4	51x110	LUG2G152MC110***
	1800	0.20	147	78	9.6	51x120	LUG2G182MC120***
	2200	0.20	120	60	10.5	51x130	LUG2G222MC130***
		0.20	120	60	10.5	64x115	LUG2G182MD115***
	2700	0.20	98	44	12.4	64x115	LUG2G272MD115***
		0.20	98	44	12.4	77x100	LUG2G272ME100***
	3300	0.20	80	40	14.5	64x120	LUG2G332MD120***
		0.20	80	40	14.5	77x115	LUG2G332ME115***
	3900	0.20	68	36	16.8	64x145	LUG2G392MD145***
		0.20	68	36	15.9	77x130	LUG2G392ME130***
	4700	0.20	56	26	20.4	77 x145	LUG2G472ME145***
		0.20	56	26	18.3	90x130	LUG2G472MF130***
	5600	0.20	47	24	22.5	77 x155	LUG2G562ME155***
		0.20	47	24	21.5	90x130	LUG2G562MF130***
	6800	0.20	39	22	25.5	77x190	LUG2G682ME190***
		0.20	39	22	25.0	90x130	LUG2G682MF130***
	8200	0.20	32	20	29.8	77x200	LUG2G822ME200***
		0.20	32	20	27.6	90x157	LUG2G822MF157***
	10000	0.20	26	18	33.5	77x240	LUG2G103ME240***
		0.20	26	18	33.2	90x196	LUG2G103MF196***
	12000	0.20	22	16	37.0	101 x196	LUG2G123MG196***
	15000	0.20	17	12	43.3	101 x236	LUG2G153MG236***
	18000	0.20	14	10	49.6	101 x250	LUG2G183MG250***

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 85℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 2W (500)	220	0.20	1206	830	2.0	36x50	LUG2W221MA050***
	270	0.20	982	736	2.4	36x60	LUG2W271MA060***
	330	0.20	804	554	2.7	36x80	LUG2W331MA080***
	470	0.20	564	390	3.5	51x80	LUG2W471MC080***
	560	0.20	473	342	4.0	51x80	LUG2W561MC080***
	680	0.20	390	270	4.5	51x80	LUG2W681MC080***
	820	0.20	323	224	6.0	51x80	LUG2W821MC080***
	1000	0.20	265	180	7.1	51x100	LUG2W102MC100***
	1200	0.20	221	140	8.1	51x110	LUG2W122MC110***
	1500	0.20	176	108	9.6	51x120	LUG2W152MC120***
	1800	0.20	147	86	10.9	64 x115	LUG2W182MD115***
	2200	0.20	120	66	12.4	64 x130	LUG2W222MD130***
		0.20	120	66	12.3	77 x100	LUG2W222ME100***
	2700	0.20	98	56	14.8	64 x130	LUG2W272MD130***
		0.20	98	58	14.4	77 x105	LUG2W272ME105***
	3300	0.20	80	44	17.3	64 x145	LUG2W332MD145***
		0.20	80	46	17.0	77 x115	LUG2W332ME115***
	4700	0.20	56	36	21.5	77 x145	LUG2W472ME145***
		0.20	56	36	21.2	90 x130	LUG2W472MF130***
	5600	0.20	47	32	26.0	77 x170	LUG2W562ME170***
		0.20	47	32	26.7	90 x157	LUG2W562MF157***
	6800	0.20	39	30	27.4	77 x200	LUG2W682ME200***
		0.20	39	30	27.0	90 x157	LUG2W682MF157***
	8200	0.20	32	20	30.7	77 x240	LUG2W822ME240***
		0.20	32	20	30.6	90 x196	LUG2W822MF196***
	10000	0.20	26	18	34.1	90 x240	LUG2W103MF240***
		0.20	26	18	33.8	101 x196	LUG2W103MG196***
	12000	0.20	22	16	39.5	90 x236	LUG2W123MF236***
		0.20	22	16	39.1	101 x196	LUG2W123MG196***
	15000	0.20	17	12	42.2	101 x236	LUG2W153MG236***

*** Indicates mounting method, terminal diameter, internal teeth.
If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.
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LUH series 105℃ 20000 hours





- Rohs requirements
- 105℃ 20000 hours,large ripple resistant series
- Used for industrial products such as switching power supplies, inverters, rectifiers, energy storage and other industrial products

■ Product description

Item	Characteristic
Operating temperature range	-40℃ ~ +105℃
Rated voltage(WV/V)	350V ~ 450V
Capacitance(CAP/C)	1000 ~ 15000μF
Tolerance(CAP/C)	±20% (25℃, 120Hz)
Leakage current LC/I(25℃, 120Hz)	LC≤0.01CV(uA) or 5mA,take the smaller value (25℃,5minutes) C=Nominal capacitance(μF),V=Working voltage(V)
Dissipation factor DF/tanδ(25℃, 120Hz)	350 ~ 450
	≤0.20
Temperature characteristics (Capacitance ratio at 120Hz)	C(-40℃/C(+25℃)≥0.6
	C(-25℃/C(+25℃)≥0.7

	Working lifetime		Standard lifetime	Durability	High temperature storage	
Load time	20000h	>220000h	20000h	20000h	1000h	
Leakage current	Within rated specification value		Within rated specification value	Within rated specification value	Within rated specification value	
Capacitance change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Dissipation factor	Within 300% of rated specification value		Within 200% of rated specification value	Within 200% of rated specification value	Within 200% of rated specification value	
Environmental condition: Applied voltage	UR	UR	UR	UR	UR = 0	Apply the rated operating voltage UR 60 minutes and test after 24 hours of recovery.
Applied current	IR	1.2×IR	IR	IR = 0	IR = 0	
Application temperature	105℃	40℃	105℃	105℃	105℃	

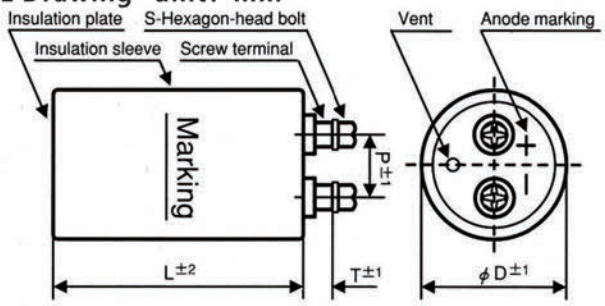
■ Ripple current correction factor

Temp.℃ / UR(V)	40	55	70	85	105
25 ~ 100	4.9	3.9	3.0	1.8	1.0
160 ~ 250	3.8	3.3	2.5	2.0	1.0
350 ~ 450	2.44	2.28	2.12	2.0	1.0

Freq. / UR(V)	50/60Hz	120Hz	300Hz	1KHz	≥10KHz
25 ~ 100	0.95	1.00	1.04	1.10	1.15
160 ~ 250	0.90	1.00	1.08	1.15	1.20
350 ~ 450	0.80	1.00	1.18	1.35	1.40

Aluminum electrolytic capacitors aging due to self-heating and temperature rise when the ripple current is superimposed, and the rising temperature will reduce the product life. To maintain the product life, please reduce the ripple current during use

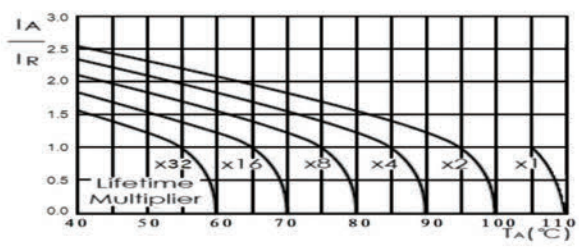
■ Drawing unit: mm



Terminal size

ΦD±1	P±1	S±0.5	T±1	CAP
36	12.7	M5×10	6	EP
51	22.0	M5×10	6	EP
64	28.6	M5×10	6	EP
77	31.4	M5×10	6	EP
90	31.4	M5×10	6	EP
101	41.5	M8×17	10	EP

■ Life curve



IA:Actual ripple current 120Hz
IR:Rated ripple current 120Hz 105°C
TA:Environment temp

■ LUH series : 105℃ 20000 hours high ripple screw capacitor

WV	CAP 25℃ 120Hz	DF 25℃ 120Hz	Max ESR 25℃ 120Hz	ESR (typ.) 25℃ 120Hz	Rated Rippie Current 105℃ 120Hz	Size ΦD×L	Code P/N
(VDC)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 2E (300)	1000	0.20	312	109	5.4	51x80	LUH2V102MC080***
	1200	0.20	260	91	6.9	51x80	LUH2V122MC080***
	1500	0.20	208	72	8.3	51x100	LUH2V152MC100***
	1800	0.20	173	60	9.8	51x120	LUH2V182MC120***
	2200	0.20	141	49	11.3	51x130	LUH2V222MC130***
	2700	0.20	115	40	12.8	64x96	LUH2V272MD096***
	3300	0.20	95	33	14.5	64x115	LUH2V332MD115***
	3900	0.20	80	28	16.7	64x130	LUH2V392MD130***
	4700	0.20	66	23	19.8	64x145	LUH2V472MD145***
	4700	0.20	66	23	19.2	77x115	LUH2V472ME115***
	5600	0.20	56	19	21.9	77x130	LUH2V562ME130***
	6800	0.20	46	16	26.3	77x155	LUH2V682ME155***
	8200	0.20	38	13	29.4	90x130	LUH2V822MF130***
	10000	0.20	32	10	32.4	90x157	LUH2V103MF157***
	12000	0.20	26	9	39.2	90x196	LUH2V123MF196***
	15000	0.20	21	7	45.5	90x236	LUH2V153MF236***
400 2G (450)	1000	0.20	32	109	5.6	51x80	LUH2G102MC080***
	1200	0.20	26	91	7.1	51x100	LUH2G122MC100***
	1500	0.20	21	72	8.5	51x120	LUH2G152MC120***
	1800	0.20	17	60	10.1	51x130	LUH2G182MC130***
	2200	0.20	14	49	11.5	64x96	LUH2G222MD096***
	2700	0.20	11	40	13.3	64x115	LUH2G272MD115***
	3300	0.20	95	33	15.2	64x130	LUH2G332MD130***
	3900	0.20	80	28	18.1	64x145	LUH2G392MD145***
	3900	0.20	80	28	18.3	77x115	LUH2G392ME115***
	4700	0.20	66	23	20.2	77x130	LUH2G472ME130***
	5600	0.20	56	19	20.3	77x145	LUH2G562ME145***
	5600	0.20	56	19	23.9	90x130	LUH2G562MF130***
	6800	0.20	46	16	26.7	90x157	LUH2G682MF157***
	8200	0.20	38	13	29.5	90x157	LUH2G822MF157***
	10000	0.20	31	10	35.8	90x196	LUH2G103MF196***
	12000	0.20	26	9	38.1	90x236	LUH2G123MF236***
450 2W (500)	1000	0.20	312	109	5.7	51x100	LUH2W102MC100***
	1200	0.20	260	91	7.2	51x120	LUH2W122MC120***
	1500	0.20	208	72	8.6	51x130	LUH2W152MC130***
	1800	0.20	173	60	10.2	64x115	LUH2W182MD115***
	2200	0.20	141	49	11.9	64x115	LUH2W222MD115***
	2700	0.20	115	40	13.8	64x130	LUH2W272MD130***
	2700	0.20	115	40	14.6	77x115	LUH2W272ME115***
	3300	0.20	94	33	16.7	77x130	LUH2W332ME130***
	3900	0.20	80	28	19.5	77x145	LUH2W392ME145***
	4700	0.20	66	23	21.8	77x155	LUH2W472ME155***
	5600	0.20	55	19	26.6	77x195	LUH2W562ME195***
	5600	0.20	55	19	27.1	90x157	LUH2W562MF157***
	6800	0.20	45	16	29.7	90x196	LUH2W682MF196***
	8200	0.20	38	13	32.6	90x196	LUH2W822MF196***
	10000	0.20	31	10	35.8	90x236	LUH2W103MF236***

*** Indicates mounting method, terminal diameter, internal teeth.

If you need to know more about product specifications, sizes and other relevant data, if not fully listed, you can contact through phone, wechat and other tools to understand.

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