

SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

CF Chip type, High Temperature, Long Life, Series

LL Long Life
S Solvent Proof



- Chip type, high temperature range, for 130°C use
- For ECU
- Application to automatic insertion machine using carrier
- Complied to the RoHS directive

Item	Characteristics					
Operating temperature range	-40 ~ +130°C					
Leakage current	I = 0.03CV or 4μA whichever is greater (after 2 minutes)					
Capacitance tolerance	±20% at 120Hz, 20°C					
Dissipation factor max. (at 120Hz, 20°C)	Rated Voltage(V)	10	16	25	35	50
	tanδ	0.32	0.24	0.21	0.18	0.18
Low temperature characteristics (Impedance ratio at 120Hz)	WV	10	16	25	35	50
	Z-25°C/Z+20°C	8	6	4	4	4
	Z-40°C/Z+20°C	12	11	8	6	6
Load life (after application of the rated voltage for 5000 hours at 130°C)	Leakage current	Less than specified value				
	Capacitance change	Within ±30% of initial value				
	tanδ	Less than 300% of the specified value				
	∅D	∅8×6.2mmL	∅8×10mmL	∅D ≥ 10		
Life time	2000 hours	3000 hours	5000 hours			
Shelf life (at 130°C)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value. The measurement shall be performed at 20°C by the KS C IEC 60384 - 4					
Resistance to soldering heat	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them at 250°C for 10 seconds.					
	Leakage current	Less than specified value				
	Capacitance change	Within ±10% of initial value				
	tanδ	Less than specified value				

● DRAWING (See page 69)

Unit : mm

-Series code of CF is "H"

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \ WV	10		16		25		35		50	
22									8×6.2	28
33							8×6.2	41	8×10	75
47							10×10	90	10×10	90
68			8×6.2	50	8×6.2	45	10×10	105	12.5×13.5	132
100	8×6.2	48	8×10	66	10×10	163	10×10	132	12.5×13.5	167
220	8×10	90	10×10	163	10×10	200	12.5×13.5	249		
330	10×10	125	10×10	200	12.5×13.5	304				
470	10×10	150	12.5×13.5	304						
1000	12.5×13.5	405								

Ripple current (mA rms) at 130°C, 120Hz
Case size ∅D×L(mm)

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz ≤
Coefficient	0.70	1.00	1.17	1.36	1.50