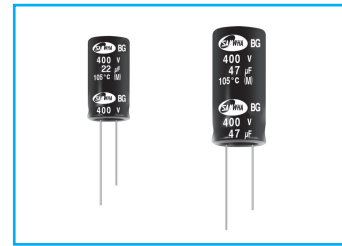


# MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

**BG** For PSU, Long Life Series



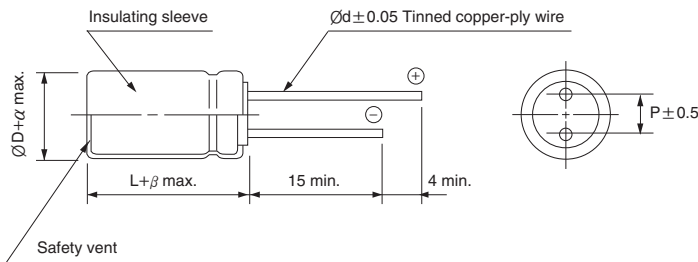
- High reliability withstanding 10000 hours load life at 105°C
- For power supply and adapter
- Complied to the RoHS directive



Item	Characteristics		
Operating temperature range	-25 ~ +105°C		
Leakage current max.	I = 0.02CV+15µA (after 5 minutes)		
Capacitance tolerance	±20% at 120Hz, 20°C		
Dissipation factor max. (at 120Hz, 20°C)	Rated Voltage(V)	400	450
	tanδ	0.20	0.20
Low temperature characteristics (Impedance ratio at 120Hz)	WV	400	450
	Z(-25°C) / Z(+20°C)	6	6
Load life	After an application of DC bias voltage plus the rated AC ripple current for 10000 hours at 105°C. The measurement shall meet the following limits. The DC voltage plus the peak AC voltage combined must not exceed the rated voltage.		
	Leakage current	Less than specified value	
	Capacitance change	Within ±20% of initial value	
	tanδ	Less than 200% of specified value	
Shelf life (at 105°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		

## ● DRAWING

Unit : mm



ØD	12.5	16	18	20
P	5.0	7.5	7.5	10.0
Ød	0.6	0.8	0.8	0.8
β		2.0		3.0
α		0.5		1.0

## ● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

µF	WV	400		450	
		22	12.5 × 25	430	12.5 × 25
33	16 × 20	640	16 × 25	650	
47	18 × 20	840	18 × 20	880	
68	18 × 25	870	18 × 25	1000	
82	18 × 31.5	950	18 × 31.5	1050	
100	18 × 31.5	1000	18 × 35.5	1100	
120	18 × 40	1160	18 × 40	1300	
150	20 × 41	1280	20 × 41	1440	

↑ ↑ Ripple current (mA rms) at 105°C, 100kHz  
Case size ØD × L (mm)

## ● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency	120Hz	1kHz	10kHz	50kHz	100kHz ≤
Coefficient	0.50	0.80	0.90	0.95	1.00