

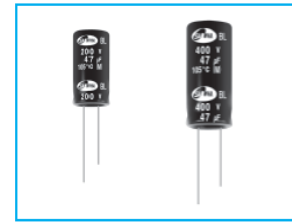
MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS



BL Series

For PSU, High Ripple Current, Long Life

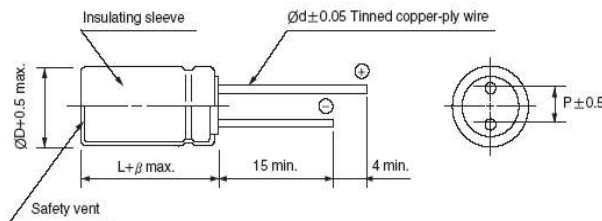
- High ripple current
- Operating temperature range of -25 ~ 105°C
- For power supply and adapter
- Complied to the RoHS directive



Item	Characteristics						
Operating temperature range	-25 ~ +105°C						
Leakage current max.	$I = 0.02CV + 25\mu A$ (after 5 minutes)						
Capacitance tolerance	±20% at 120Hz, 20°C						
Dissipation factor max. (at 120Hz, 20°C)	WV	160	200	250	350	400	450
	tanδ	0.15	0.15	0.15	0.20	0.20	0.20
Low temperature characteristics (Impedance ratio at 120Hz)	WV	160	200	250	350	400	450
	Z-25°C/Z+20°C	3	3	3	4	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					
Shelf life (at 105°C)	tanδ	Less than 200% of specified value					
	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 6503 clause 5.1.						

● DRAWING

Unit : mm



ØD	10	12.5	16	18
P	5.0	5.0	7.5	7.5
Ød	0.6	0.6	0.8	0.8
β	2.0			

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV	160		200		250		350		400		450		500	
4.7									10 × 12.5	190	10 × 16	220		
6.8					10 × 12.5	190	10 × 16	220	10 × 16	220	10 × 16	220		
10	10 × 16	250	10 × 16	250	10 × 20	280	10 × 20	280	10 × 20	280	12.5 × 20	320	12.5 × 25	320
22	10 × 20	500	10 × 20	500	12.5 × 20	600	12.5 × 20	350	12.5 × 25	430	12.5 × 25	350	16 × 25	560
33	10 × 20	500	12.5 × 20	600	12.5 × 20	600	16 × 20	500	16 × 25	640	18 × 25	560	16 × 31.5	675
47	12.5 × 20	660	12.5 × 20	660	12.5 × 25	720	16 × 25	660	18 × 25	840	18 × 25	700	18 × 35.5	720
68	12.5 × 25	760	12.5 × 25	760	16 × 25	920	18 × 25	840	18 × 31.5	870	18 × 31.5	1000	18 × 40	1060
82	12.5 × 25	830	16 × 25	955	16 × 25	1010	18 × 31.5	900	18 × 35.5	950	18 × 35.5	1050		
100	16 × 25	1120	18 × 25	1120	18 × 25	1200			18 × 40	1000	18 × 40	1100		
150	18 × 25	1360	18 × 25	1360										

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

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency	60Hz	120Hz	1kHz	10kHz	50kHz	100kHz ≤
Coefficient	0.35	0.50	0.80	0.90	0.95	1.00

ITEM	SIZE (ØD×L)	Ripple Current				
		120Hz	1kHz	10kHz	50kHz	100kHz
BL 200V 68µF	10×30	600	960	1080	1140	1200
BL 450V 68µF	18×25	450	720	810	1000	1000