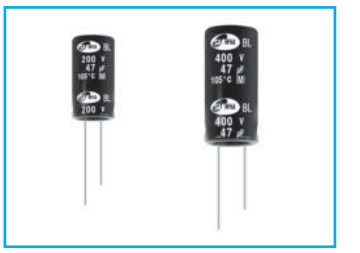
MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

Upgrade

BL For PSU, High Ripple Current, Long Life Series

Long Life

RH ⇨ BL
Long life

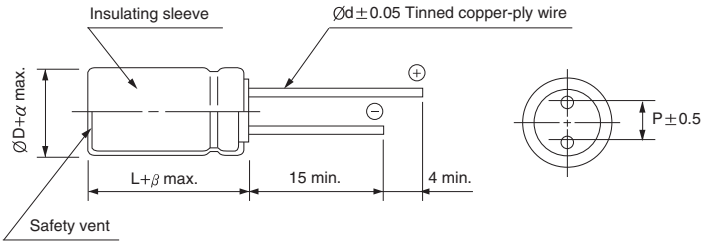


- High ripple current
- Operating temperature range of -40 ~ +105˚C
- For power supply and adapter
- Complied to the RoHS directive

Item	Characteristics
Operating temperature range	-40 ~ +105˚C (160 ~ 450WV), -25 ~ +105˚C (500WV)
Leakage current max.	I = 0.02CV + 25μA (after 5 minutes)
Capacitance tolerance	±20% at 120Hz, 20˚C
Dissipation factor max. (at 120Hz, 20˚C)	WV: 160 / 200 / 250 / 350 / 400 / 420 / 450 / 500 tanδ: 0.15 / 0.15 / 0.15 / 0.20 / 0.20 / 0.20 / 0.20 / 0.24
Low temperature characteristics (Impedance ratio at 120Hz)	WV: 160 / 200 / 250 / 350 / 400 / 420 / 450 / 500 Z-25˚C/Z+20˚C: 3 / 3 / 3 / 4 / 6 / 6 / 6 / 6 Z-40˚C/Z+20˚C: 4 / 4 / 4 / 6 / 6 / 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	8	10	12.5	16	18	20
P	3.5	5.0	5.0	7.5	7.5	10.0
Ød	0.6	0.6	0.6	0.8	0.8	0.8
α	0.5					1.0
β	1.5	2.0				3.0

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

BL series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \ WV	160		200		250		350	
4.7					8 × 11.5	193		
6.8					8 × 11.5	220	10 × 16	264
					10 × 12.5	230		
10	10 × 16	320	10 × 16	320	10 × 16	320	8 × 20	315
							10 × 20	340
22	10 × 16	500	10 × 16	500	12.5 × 20	500	12.5 × 20	424
33	10 × 20	650	10 × 20	650	12.5 × 20	770	16 × 20	605
47	10 × 20	750	12.5 × 20	840	12.5 × 20	980	16 × 25	800
68	12.5 × 20	970	12.5 × 25	970	16 × 20	1080	18 × 25	1020
82	12.5 × 25	1250	16 × 20	1125			18 × 31.5	1090
					16 × 20	1190		
100	12.5 × 25	1250	16 × 20	1230	18 × 25	1425		
150	16 × 25	1610	18 × 25	1740	18 × 25	2000		

μF \ WV	400		420		450		500	
1	8 × 11.5	72			8 × 11.5	100		
2.2	8 × 11.5	99			8 × 11.5	110		
3.3	8 × 11.5	160			8 × 11.5	160		
3.9	8 × 11.5	170			8 × 15	180		
4.7	8 × 15	175			8 × 20	240		
	10 × 12.5	230			10 × 16	240		
6.8	8 × 20	230			10 × 16	265		
	10 × 16	265						
10	10 × 20	340	10 × 20	360	10 × 20	385	12.5 × 25	385
15					10 × 20	385		
22	12.5 × 25	520	12.5 × 25	520	12.5 × 20	485	16 × 25	675
					12.5 × 25	485	16 × 31.5	820
			16 × 20	520	16 × 25	675		
33	16 × 25	775	16 × 25	825	18 × 25	845	18 × 35.5	870
47	18 × 25	1020	18 × 31.5	1015	18 × 31.5	1060	18 × 40	1200
68	18 × 31.5	1050	18 × 25	1090	18 × 25	1200	18 × 35.5	1200
			18 × 31.5	1125	18 × 31.5	1200	18 × 40	1300
82	18 × 35.5	1150	18 × 31.5	1210	18 × 35.5	1270	16 × 50	1350
100	18 × 40	1210	18 × 35.5	1270	18 × 35.5	1330		
			18 × 40	1330	18 × 40	1400		
120					18 × 40	1450		
150					20 × 41	1550		

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