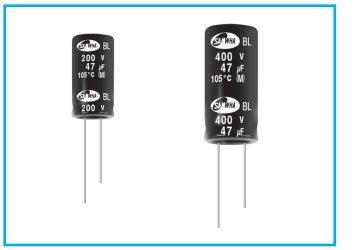
MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

BL For PSU, High Ripple Current, Long Life Series

Long Life

RH ⇨ BL
Long life

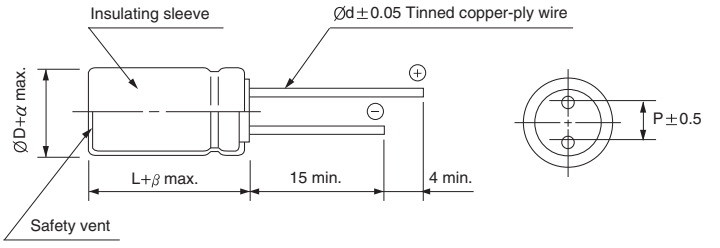


- High ripple current
- Operating temperature range of -40 ~ +105˚C
- For power supply and adapter
- Complied to the RoHS directive

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
β	1.5	2.0				3.0
α	0.5					1.0

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	175		
6.8					8 × 11.5	200	10 × 16	240
					10 × 12.5	210		
10	10 × 16	275	10 × 16	275	8 × 15	265	8 × 20	385
					10 × 20	310	10 × 20	310
22	10 × 20	550	10 × 20	550	12.5 × 20	660	12.5 × 20	385
33	10 × 20	550	12.5 × 20	660	12.5 × 20	660	16 × 20	550
47	12.5 × 20	725	12.5 × 20	725	12.5 × 25	790	16 × 25	725
68	12.5 × 25	835	12.5 × 25	835	16 × 25	1010	18 × 25	925
			10 × 30	1045				
82	12.5 × 25	915	16 × 25	1050	12.5 × 30	1050	18 × 31.5	990
					16 × 25	1110		
100	16 × 25	1230	18 × 25	1230	18 × 25	1320		
150	18 × 25	1495	18 × 25	1495				

μF \ WV	400		420		450		500	
1	8 × 11.5	65			8 × 11.5	90		
2.2	8 × 11.5	90			8 × 11.5	105		
3.3	8 × 11.5	145			8 × 11.5	145		
3.9	8 × 11.5	155			8 × 15	165		
4.7	8 × 15	160			8 × 20	220		
	10 × 12.5	210			10 × 16	220		
6.8	8 × 20	210			10 × 16	240		
	10 × 16	240						
10	10 × 20	310	10 × 20	330	12.5 × 20	350	12.5 × 25	350
15					10 × 20	350		
22	12.5 × 25	475	12.5 × 25	475	12.5 × 20	440	16 × 25	615
					12.5 × 25	440	16 × 31.5	745
			16 × 20	475	16 × 25	615		
33	16 × 25	705	16 × 25	750	18 × 25	770	18 × 35.5	790
47	18 × 25	925	18 × 31.5	925	18 × 31.5	970	18 × 40	1100
68	18 × 31.5	955	18 × 25	990	18 × 25	1100	18 × 35.5	1100
			18 × 31.5	1025	18 × 31.5	1100	18 × 40	1165
82	18 × 35.5	1045	18 × 31.5	1100	18 × 35.5	1155	16 × 50	1210
100	18 × 40	1100	18 × 35.5	1155	18 × 35.5	1210		
			18 × 40	1210	18 × 40	1265		
120					18 × 40	1320		
150					20 × 41	1430		

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