MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

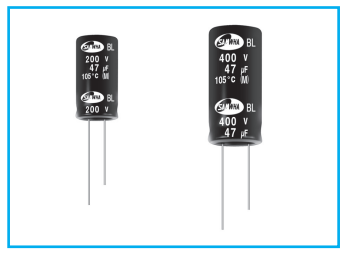
Upgrade

BL

For PSU, High Ripple Current, Long Life Series

Long Life

RH ⇨ BL
Long life

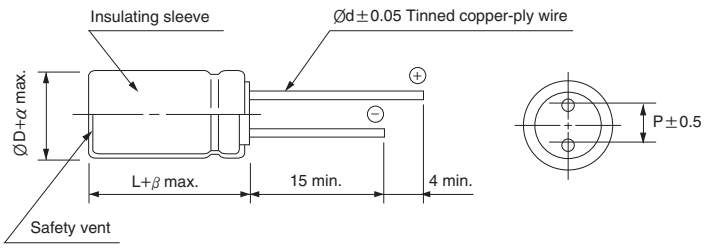


- High ripple current
- Operating temperature range of -25 ~ +105˚C
- For power supply and adapter
- Complied to the RoHS directive

Item	Characteristics
Operating temperature range	-25 ~ +105˚C
Leakage current max.	I = 0.02CV + 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
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 Ø8 products are for 9000 hours
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	160		
6.8					8 × 11.5	180	10 × 16	220
					10 × 12.5	190		
10	10 × 16	250	10 × 16	250	8 × 15	240	8 × 20	350
					10 × 20	280	10 × 20	280
22	10 × 20	500	10 × 20	500	12.5 × 20	600	12.5 × 20	350
33	10 × 20	500	12.5 × 20	600	12.5 × 20	600	16 × 20	500
47	12.5 × 20	660	12.5 × 20	660	12.5 × 25	720	16 × 25	660
68	12.5 × 25	760	12.5 × 25	760	16 × 25	920	18 × 25	840
			10 × 30	950				
82	12.5 × 25	830	16 × 25	955	12.5 × 30	955	18 × 31.5	900
					16 × 25	1010		
100	16 × 25	1120	18 × 25	1120	18 × 25	1200		
150	18 × 25	1360	18 × 25	1360				

μF \ WV	400		420		450		500	
1	8 × 11.5	60			8 × 11.5	82		
2.2	8 × 11.5	80			8 × 11.5	94		
3.3	8 × 11.5	130			8 × 11.5	130		
3.9	8 × 11.5	140			8 × 15	150		
4.7	8 × 15	145			8 × 20	220		
	10 × 12.5	190			10 × 16	220		
6.8	8 × 20	350			10 × 16	220		
	10 × 16	220						
10	10 × 20	280	10 × 20	300	12.5 × 20	320	12.5 × 25	320
15					10 × 20	320		
22	12.5 × 25	430	12.5 × 25	430	12.5 × 20	400	16 × 25	560
			16 × 20	430	12.5 × 25	400	16 × 31.5	675
					16 × 25	560		
33	16 × 25	640	16 × 25	680	18 × 25	700	18 × 35.5	720
47	18 × 25	840	18 × 31.5	840	18 × 31.5	880	18 × 40	1000
68	18 × 31.5	870	18 × 25	900	18 × 25	1000	18 × 35.5	1000
			18 × 31.5	930	18 × 31.5	1000	18 × 40	1060
82	18 × 35.5	950	18 × 31.5	1000	18 × 35.5	1050	16 × 50	1100
100	18 × 40	1000	18 × 35.5	1050	18 × 35.5	1100		
			18 × 40	1100	18 × 40	1150		
120					18 × 40	1200		
150					20 × 41	1300		

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