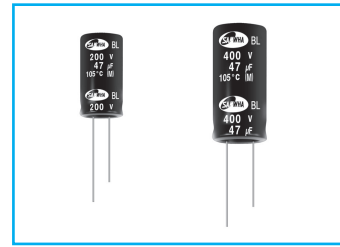


# MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

Upgrade

**BL** For PSU, High Ripple Current, Long Life Series

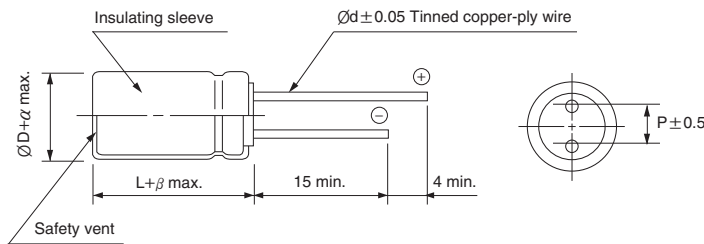
- High ripple current
- Operating temperature range of -25 ~ +105°C
- For power supply and adapter
- Complied to the RoHS directive



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)	<table border="1"> <tr> <td>WV</td> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>420</td> <td>450</td> <td>500</td> </tr> <tr> <td>tanδ</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.24</td> </tr> </table>	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
	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)	<table border="1"> <tr> <td>WV</td> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>420</td> <td>450</td> <td>500</td> </tr> <tr> <td>Z-25°C/Z+20°C</td> <td>3</td> <td>3</td> <td>3</td> <td>4</td> <td>6</td> <td>6</td> <td>6</td> <td>6</td> </tr> </table>	WV	160	200	250	350	400	420	450	500	Z-25°C/Z+20°C	3	3	3	4	6	6	6	6
	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

# MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS



## BL series

### ● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

$\mu$ F \ 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				

$\mu$ F \ 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  $\varnothing$ D×L (mm)

MINIATURE TYPES

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