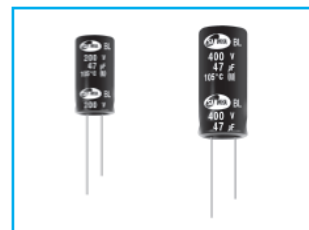


MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS



BL For PSU, High Ripple Current, Long Life Series

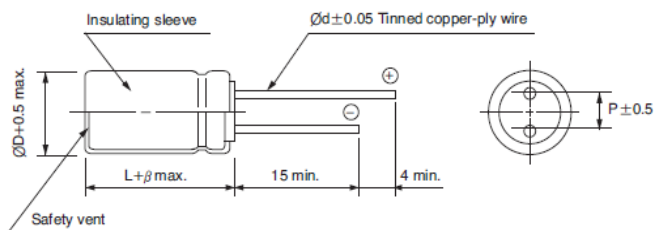
- High ripple current
- Operating temperature range of -25 ~ 105°C
- For power supply and adapter
- Complied to the RoHS directive



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"> <thead> <tr> <th>WV</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> <th>500</th> </tr> </thead> <tbody> <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>0.24</td> </tr> </tbody> </table>	WV	160	200	250	350	400	450	500	tanδ	0.15	0.15	0.15	0.20	0.20	0.20	0.24
	WV	160	200	250	350	400	450	500									
tanδ	0.15	0.15	0.15	0.20	0.20	0.20	0.24										
Low temperature characteristics (Impedance ratio at 120Hz)	<table border="1"> <thead> <tr> <th>WV</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> <th>500</th> </tr> </thead> <tbody> <tr> <td>Z-25°C/Z+20°C</td> <td>3</td> <td>3</td> <td>3</td> <td>6</td> <td>6</td> <td>6</td> <td>6</td> </tr> </tbody> </table>	WV	160	200	250	350	400	450	500	Z-25°C/Z+20°C	3	3	3	6	6	6	6
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Z-25°C/Z+20°C	3	3	3	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.																
	<table border="1"> <tbody> <tr> <td>Leakage current</td> <td>Less than specified value</td> </tr> <tr> <td>Capacitance change</td> <td>Within ±20% of initial value</td> </tr> <tr> <td>tanδ</td> <td>Less than 200% of specified value</td> </tr> </tbody> </table>	Leakage current	Less than specified value	Capacitance change	Within ±20% of initial value	tanδ	Less than 200% of specified value										
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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 6503 clause 5.1.																

DRAWING

Unit : mm



ØD	10	12.5	16	18	20	22
P	5.0	5.0	7.5	7.5	10.0	10.0
Ød	0.6	0.6	0.8	0.8	0.8	1.0
β	2.0		3.0			
α	0.5		1.0			

DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV	160		200		250		350		400		450		500	
µF														
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
											16×25	560	16×31.5	675
33	10×20	500	12.5×20	600	12.5×20	600	16×20	500	16×25	640	18×25	700	18×35.5	720
47	12.5×20	660	12.5×20	660	12.5×25	720	16×25	660	18×25	840	18×31.5	880	18×40	1000
68	12.5×25	760	12.5×25	760	16×25	920	18×25	840	18×31.5	870	18×25	1000	18×40	1060
											18×31.5	1000		
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	18×35.5	1100		
											18×40	1150		
120											18×40	1200		
150	18×25	1360	18×25	1360							20×41	1300		

↑ ↑ 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