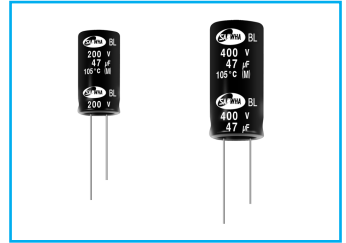


BL For PSU, High Ripple Current, Long Life Series

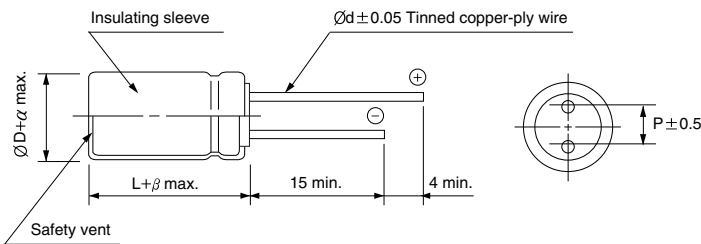
- High ripple current
- Operating temperature range of -40 ~ +105°C
- For power supply and adapter
- Complied to the RoHS directive



Item	Characteristics																											
Operating temperature range	-40 ~ +105°C (160 ~ 450WV), -25 ~ +105°C (500WV)																											
Leakage current max.	$I = 0.02CV + 25\mu A$ (after 5 minutes)																											
Capacitance tolerance	$\pm 20\%$ 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>420</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>0.20</td> <td>0.24</td> </tr> </tbody> </table>	WV	160	200	250	350	400	420	450	500	tan δ	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																			
tan δ	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"> <thead> <tr> <th>WV</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>420</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>4</td> <td>6</td> <td>6</td> <td>6</td> <td>6</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>4</td> <td>4</td> <td>4</td> <td>6</td> <td>6</td> <td>6</td> <td>6</td> <td>-</td> </tr> </tbody> </table>	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	-
	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.																											
	<table border="1"> <tbody> <tr> <td>Leakage current</td> <td>Less than specified value</td> </tr> <tr> <td>Capacitance change</td> <td>Within $\pm 20\%$ 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 $\pm 20\%$ of initial value	tan δ	Less than 200% of specified value																					
	Leakage current	Less than specified value																										
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tan δ	Less than 200% of specified value																											
Shelf life (at 105°C)	After 1000 hours no load test, leakage current, capacitance and tan δ 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

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

BL series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \diagdown 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
22	10 × 16	500	10 × 16	500	10 × 20	500	10 × 20	340
33	10 × 20	650	10 × 20	650	12.5 × 20	770	12.5 × 20	424
47	10 × 20	750	12.5 × 20	840	12.5 × 20	980	16 × 20	605
68	12.5 × 20	970	12.5 × 25	970	16 × 20	1080	16 × 25	800
							18 × 25	1020
82	12.5 × 25	1250	16 × 20	1125	16 × 20	1190	18 × 31.5	1090
100	12.5 × 25	1250	16 × 20	1230	18 × 25	1425		
150	16 × 25	1610	18 × 25	1740	18 × 25	2000		

μF \diagdown 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
			16 × 20	520	12.5 × 25	485	16 × 31.5	820
					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 × 35.5	1000
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		

↑ WV
 ↑ Ripple current (mA rms) at 105°C, 100kHz
 ↑ Case size $\varnothing D \times L$ (mm)