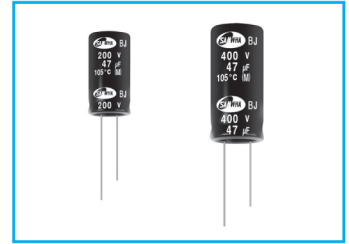


BJ For PSU, High Ripple, Long Life Series

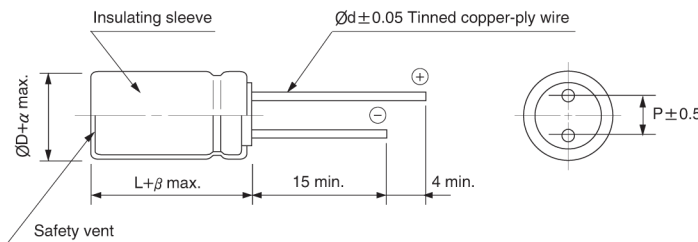
- High reliability withstanding 12000 hours load life at 105°C
- Suitable for CFL, adapter and power supply
- Complied to the RoHS directive



Item	Characteristics																											
Operating temperature range	-40 ~ +105°C (160 ~ 450WV), -25 ~ +105°C (500WV)																											
Leakage current max.	I = 0.04CV + 100µA (after 1 minutes) I = 0.02CV + 25µA (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>6</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> </table>	WV	160	200	250	350	400	420	450	500	Z-25°C/Z+20°C	3	3	3	6	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	6	6	6	6	6																				
Z-40°C/Z+20°C	4	4	4	6	6	6	6	-																				
Load life	<p>After an application of DC bias voltage plus the rated AC ripple current for 12000 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.</p> <table border="1"> <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> </table>	Leakage current	Less than specified value	Capacitance change	Within ±20% of initial value	tanδ	Less than 200% of specified value																					
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

WV	µF	Frequency	120Hz	1kHz	10kHz	50kHz	100kHz ≤
160~450	~ 15	~ 15	0.30	0.60	0.90	0.95	1.00
		22 ~ 47	0.40	0.70	0.90	0.95	1.00
		68 ~	0.50	0.80	0.90	0.95	1.00
500	~ 39	~ 39	0.40	0.70	0.90	0.95	1.00
		47 ~	0.50	0.80	0.90	0.95	1.00

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

BJ series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \diagdown WV	160		200		250		350	
4.7					8 × 11.5	175	10 × 12.5	180
6.8					8 × 11.5	200	10 × 16	280
					10 × 12.5	290		
10	10 × 16	340	10 × 16	370	8 × 15	265	10 × 20	450
					10 × 16	370		
					10 × 12.5	400		
22	10 × 16	520	10 × 20	580	10 × 20	580	12.5 × 20	675
27	10 × 16	555	10 × 20	625	10 × 20	600	12.5 × 20	713
33	10 × 16	690	10 × 20	750	12.5 × 20	775	16 × 20	780
39	10 × 20	690	12.5 × 20	763	12.5 × 20	805	16 × 20	800
47	10 × 20	840	12.5 × 20	1000	12.5 × 20	1000	16 × 25	1125
68	12.5 × 20	875	12.5 × 25	1080	16 × 20	1100	18 × 25	1220
			16 × 20	1100				
82	12.5 × 25	945	16 × 25	1120	16 × 20	1340	18 × 25	1370
100	12.5 × 25	1210	16 × 25	1304	16 × 25	1400	18 × 31.5	1490
	16 × 20				18 × 20			
120	16 × 25	1325	16 × 25	1428	18 × 25	1495	18 × 35.5	1680
150	16 × 25	1500	18 × 25	1570	18 × 25	1740	18 × 40	1884
180	16 × 25	1620	18 × 25	1600	18 × 31.5	1840	20 × 41	2100
220	18 × 25	1900	18 × 31.5	2020	18 × 35.5	2000		
270	16 × 35.5	2000	18 × 35.5	2300				
330	16 × 40	2280	18 × 40	2500				
470	18 × 45	2804						

μF \diagdown 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 × 16	220			10 × 16	220		
6.8	8 × 20	210			10 × 16	330		
	10 × 16	280			10 × 20	400		
10	10 × 20	420	10 × 20	420	10 × 20	400	12.5 × 20	413
					12.5 × 20	480		
15	12.5 × 20	480	12.5 × 20	480	12.5 × 20	480	12.5 × 25	440
					12.5 × 25	600		
22	12.5 × 25	720	12.5 × 25	745	12.5 × 25	890	16 × 25	675
			16 × 20	780	16 × 20	900		
27	16 × 20	730	16 × 20	875	16 × 20	950	16 × 25	823
33	16 × 20	960	12.5 × 30	980	16 × 25	1095	16 × 31.5	880
			16 × 25	1035	18 × 20		18 × 25	
39	16 × 20	1000	16 × 25	1050	16 × 25	1100	16 × 31.5	1033
47	16 × 25	1080	16 × 25	1125	18 × 25	1150	18 × 31.5	1033
	18 × 20							
68	16 × 31.5	1190	18 × 25	1150	18 × 31.5	1180	18 × 40	1200
82	18 × 31.5	1490	18 × 31.5	1450	18 × 35.5	1430	18 × 40	1340
100	18 × 35.5	1810	18 × 35.5	1700	18 × 35.5	1740	20 × 41	1600
					18 × 40	1740		
120	18 × 40	1824	18 × 40	1700	18 × 45	1740		
150	20 × 41	2040	20 × 41	2000				

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