

# MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS



## BJ For PSU, High Ripple, Long Life Series

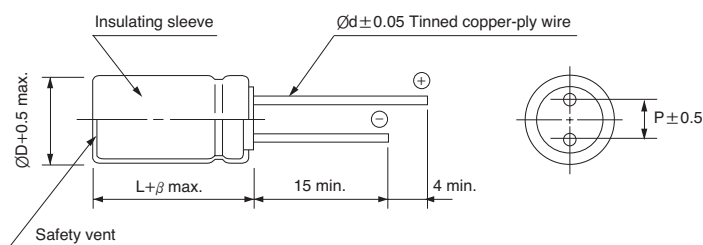
- High reliability withstanding 12000 hours load life at 105°C
- Suitable for CFL, adapter and power supply
- Complied to the RoHS directive



Item	Characteristics								
Operating temperature range	-40 ~ +105°C (160 ~ 250WV), -25 ~ +105°C (350 ~ 500WV)								
Leakage current max.	CV ≤ 1000 : I = 0.01CV + 40μA (after 1 minutes), I = 0.03CV + 15μA (after 5 minutes) CV > 1000 : 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)	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)	WV	160	200	250	350	400	450	500	
	Z-25°C/Z+20°C	3	3	3	6	6	6	6	
	Z-40°C/Z+20°C	4	4	4	-	-	-	-	
Load life	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.								
	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 6035 clause 5.4.								

### ● DRAWING

Unit : mm



ØD	10	12.5	16	18
P	5.0	5.0	7.5	7.5
Ød	0.6	0.6	0.8	0.8
	2.0			

MINIATURE TYPES

### ● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

WV	Frequency		120Hz	1kHz	10kHz	50kHz	100kHz
	μF						
160~450	4.7 ~ 15		0.30	0.60	0.90	0.95	1.00
	22 ~ 47		0.40	0.70	0.90	0.95	1.00
	68 ~ 220		0.50	0.80	0.90	0.95	1.00
500	10 ~ 33		0.40	0.70	0.90	0.95	1.00
	47 ~ 68		0.50	0.80	0.90	0.95	1.00

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**BJ** series

## ● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

$\mu\text{F}$ \diagdown WV	160		200		250		350	
4.7							10 × 12.5	150
6.8					10 × 12.5	250	10 × 16	230
10	10 × 16	280	10 × 16	320	10 × 16	320	10 × 20	350
22	10 × 16	450	10 × 20	500	10 × 20	500	12.5 × 20	530
33	10 × 16	600	10 × 20	650	12.5 × 20	670	16 × 20	710
47	10 × 20	680	12.5 × 20	780	12.5 × 20	780	16 × 25	935
68	12.5 × 20	760	12.5 × 25	820	16 × 20	920	18 × 25	1010
			16 × 20					
82	12.5 × 25	820	16 × 25	900	16 × 20	1070	18 × 25	1140
100	12.5 × 25	1050	16 × 25	1120	16 × 25	1200	18 × 31.5	1220
	16 × 20				18 × 20			
120	16 × 25	1150	16 × 25	1200	18 × 25	1300		
150	16 × 25	1300	18 × 25	1360	18 × 25	1500		
220	18 × 25	1750	18 × 31.5	1800				

$\mu\text{F}$ \diagdown WV	400		450		500	
4.7	10 × 16	180	10 × 16	180		
6.8	10 × 16	230	10 × 16	230		
			10 × 20	280		
10	10 × 20	330	10 × 20	330	12.5 × 20	300
			12.5 × 20	400		
15	12.5 × 20	400	12.5 × 20	400	12.5 × 25	440
			12.5 × 25	500		
22	12.5 × 25	600	12.5 × 25	740	16 × 25	560
			16 × 20	750		
33	16 × 20	800	16 × 25	910	16 × 31.5	675
			18 × 20		18 × 25	
47	16 × 25	900	18 × 25	1050	18 × 31.5	720
	18 × 20					
68	16 × 31.5	1080	18 × 31.5	1170	18 × 40	1000
82	18 × 31.5	1350	18 × 35.5	1430	18 × 40	1050
100	18 × 35.5	1640	18 × 40	1690	20 × 41	1150

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