

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

I14064 (BS)

Upgrade

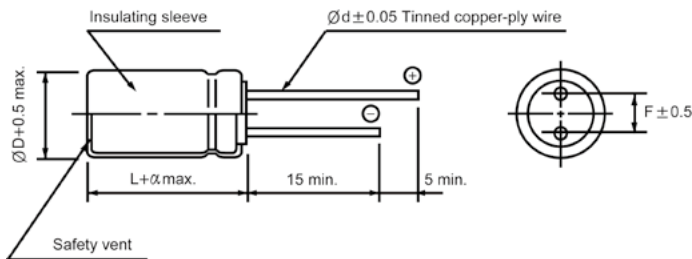
For PSU, High Ripple Current, Long Life Series

- High ripple current
- High reliability withstanding 5000 hours load life at 105°C
- Suited for ballast application
- Complied to the RoHS directive

Items	Performance characteristics							
Operating temperature range	-40 ~ +105°C (160V~450V); -25 ~ +105°C (500V)							
Leakage current max.	I=0.02CV + 15μA (after 5 minutes)							
Capacitance tolerance	±20% at 120Hz, 20°C							
Dissipation factor max. (at 120Hz, 20°C)	WV	160	200	250	350	400~500		
	Tanδ	0.15	0.15	0.15	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	4	6	6	6
	Z-40°C / Z+20°C	4	4	4	8	10	10	-
Load life (after application of the rated voltage for 5000 hours at 105°C)	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.							

● DRAWING

Unit : mm



ΦD	10	12.5	16	18	22
F	5.0	5.0	7.5	7.5	10.0
Φd	0.6		0.8		
α	2.0			3.0	

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency μF	60Hz	120Hz	1kHz	10kHz	50kHz	100kHz≤
~ 4.7	0.25	0.30	0.60	0.80	0.90	1.00
6.8 ~ 15	0.30	0.40	0.70	0.90	0.95	1.00
22 ~	0.40	0.50	0.80	0.90	0.95	1.00

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BS Series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \diagdown WV	160		200		250		350	
4.7							10×16	200
6.8			10×12.5	120	10×12.5	120	10×16	200
10	10×16	250	10×16	300	10×20	300	10×20	280
15					10×12.5	260		
22	10×16 10×20	360 500	10×16 10×20	360 500	12.5×20	600	12.5×20	350
33	10×20	500	10×20 12.5×20	500 600	12.5×20	600	16×20	500
47	12.5×20	600	12.5×20	660	12.5×25	720	16×25	660
68	12.5×25	600	12.5×25	760	16×25	920	16×31.5	800
82	16×20	760	16×20	880	16×25	1120	18×31.5	920
100	16×25	1100	16×25	1120	16×31.5	1200	18×31.5	1020
120	16×25	1180	16×31.5	1200	18×25	1200	18×31.5	1150
150	16×31.5	1300	16×31.5	1300	18×25 18×31.5	1250 1250	18×40	1250
220					18×35.5	1600		

μF \diagdown WV	400		420		450		500	
1.0	10×12.5	90						
2.2	10×12.5	100	10×12.5	100	10×12.5	100		
3.3	10×12.5	128	10×12.5	128	10×12.5	128		
4.7	10×12.5	180	10×12.5	180	10×16	180		
6.8	10×16	200	10×16	200	10×16	200		
10	10×20	280	10×20	280	10×20	300	12.5×20 12.5×25	300 360
15	12.5×16	280					12.5×25	360
22	12.5×25	430	12.5×25	430	12.5×20 16×25	430 550	16×25	420
33	16×25	640	16×25	660	16×31.5	700	16×31.5	560
47	16×31.5	750	16×31.5	750	16×31.5	700	18×35.5	700
56			18×25	750	18×25	750	18×35.5	740
68	16×31.5	880	16×31.5	900	18×25 18×31.5	900 1000	18×35.5	900
82	16×35.5	1000	16×35.5	1000	18×31.5 18×35.5	1035 1100	18×40	1030
100	18×35.5	1120	18×35.5	1170	18×35.5	1500	18×45 22×40	1100 1200
120	18×40	1250	18×40	1280	18×40	1500		
150	22×40	1380	22×40	1500	22×40	1796		
180	22×40	1450	22×40	1600	22×45	1800		

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