

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

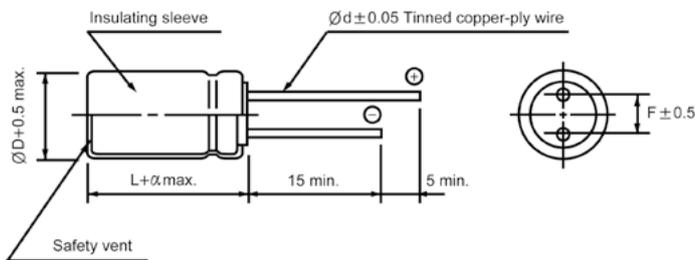
I14066 (BD) For PSU, High Ripple, Long Life Series

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

Items	Performance characteristics									
Operating temperature range	-40 ~ +105°C (160V~450V); -25 ~ +105°C (500V)									
Leakage current max.	I=0.04CV + 100μA (after 1 minute) 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	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)	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	10	10	10	10	10	-
Load life (after application of the rated voltage for 12000 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	8	10	12.5	16	18	22
F	3.5	5.0	5.0	7.5	7.5	10.0
Φd	0.5	0.6		0.8		
α	1.5	2.0			3.0	

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

WV	μF	Frequency					
		120Hz	300Hz	1kHz	10kHz	50kHz	100kHz≤
160 ~ 450	~ 15	0.30	0.50	0.60	0.90	0.95	1.00
	22 ~ 47	0.40	0.50	0.70	0.90	0.95	1.00
	68 ~	0.50	0.60	0.80	0.90	0.95	1.00
500	~ 39	0.40	0.50	0.70	0.90	0.95	1.00
	47 ~	0.50	0.60	0.80	0.90	0.95	1.00

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I14066 (BD) Series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV μF	160		200		250		350	
4.7					8×11.5	193	10×12.5	198
6.8					8×11.5 10×12.5	220 319	10×16	308
10	10×16	358	10×16	407	8×16 10×16	292 407	8×20 10×20	424 462
22	10×16	572	10×20	638	10×20	580	12.5×20	743
27	10×16	611	10×20	638	10×20	660	12.5×20	784
33	10×16	690	10×20	825	12.5×20	853	16×20	858
39	10×20	759	12.5×20	839	12.5×20	886	16×20	880
47	10×20	924	12.5×20	1100	12.5×20	1100	16×25	1130
68	12.5×20	924	12.5×25 16×20	1188 1210	16×20	1210	18×25	1220
82	12.5×25	1040	16×25	1232	16×20	1340	18×25	1380
100	12.5×25 16×20	1210 1210	16×25	1434	16×25 18×20	1540 1540	18×31.5	1617
120	16×25	1325	16×25	1571	18×25	1645	18×35.5	1848
150	16×25	1645	18×25	1727	18×25	1914	18×40	2072
180	16×25	1782	18×25	1760	18×31.5	2024	22×40	2310
220	18×25	2090	18×31.5	2222	18×35.5	2200		
270	16×35.5	2200	18×35.5	2530				
330	16×40	2508	18×40	2750				
470	18×45	3084						

↑ Ripple current (mA rms) at 105°C , 100kHz
Case size ΦD×L(mm)

WV μF	400		420		450		500	
1.0	8×11.5	72			8×11.5	90		
2.2	8×11.5	99			8×11.5	105		
3.3	8×11.5	160			8×11.5	145		
3.9	8×11.5	171			8×16	165		
4.7	8×16 10×12.5	176 242			8×20 10×12.5	242 242		
6.8	8×20 10×16	231 308			10×16 10×20	363 440		
10	10×20	462	10×20	462	10×20 12.5×20	440 528	12.5×20	413
15	12.5×20	528	12.5×20	528	12.5×20 12.5×25	528 660	12.5×25	440
22	12.5×25	792	12.5×25 16×20	745 780	12.5×25 16×20	890 900	16×20 16×25	500 675
27	16×20	803	16×20	875	16×20	950	16×25	823
33	16×20	960	12.5×30 16×25	980 1035	16×25 18×20	1095 1095	16×31.5 18×25	880 880
39	16×20	1000	16×25	1050	16×25	1100	16×31.5	1033
47	16×25 18×20	1188 1188	16×25	1125	18×25	1150	18×25 18×31.5	1000 1033
68	16×31.5	1309	18×25	1265	18×31.5	1180	18×35.5 18×40	1100 1200
82	18×31.5	1639	18×31.5	1450	18×35.5	1430	18×35.5 18×40	1250 1340
100	18×35.5	1810	18×35.5	1700	18×35.5 18×40	1740 1740	18×45 22×40	1400 1600
120	18×40	2006	18×40	1700	18×45	1740		
150	22×40	2244	22×40	2000				