

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

I14062 (SY)

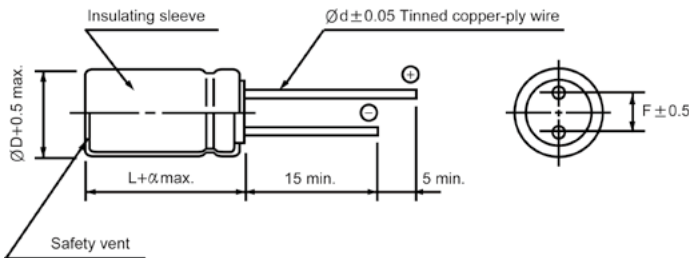
Miniature, Long Life, For LED Lighting Series

- Miniature, long life
- For LED Lighting
- High reliability withstanding 10000 hours load life at 105°C
- Complied to the RoHS directive

Items	Performance characteristics							
Operating temperature range	-25 ~ +105°C							
Leakage current max.	I = 0.01CV or 3μA whichever is greater (after 2 minutes) I = 0.03CV or 4μA whichever is greater (after 1 minutes)							
Capacitance tolerance	±20% at 120Hz, 20°C							
Dissipation factor max. (at 120Hz, 20°C)	WV	10	16	25	35	50	63	100
	Tanδ	0.45	0.35	0.30	0.22	0.19	0.17	0.15
Low temperature characteristics (Impedance ratio at 120Hz)	WV	10	16	25	35	50	63	100
	Z-25°C / Z+20°C	8	6	4	4	3	4	4
Load life (after application of the rated voltage for 10000 hours at 105°C)	Leakage current	Less than specified value						
	Capacitance change	Within ±25% 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	5	6.3	8
F	2.0	2.5	3.5
Φd	0.5		
α	1.5		

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency μF	120Hz	1kHz	10kHz	50kHz	100kHz≤
~ 33	0.42	0.70	0.90	0.95	1.00
47 ~	0.55	0.73	0.92	0.96	1.00

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV μF	10	16	25	35	50	63	100
1.0					5×11	32	
2.2					5×11	42	
3.3					5×11	84	
4.7					5×11	96	
10					5×11	108	6.3×11 205
22					5×11	132	6.3×11 265 8×11.5 240
33			5×11 156	5×11 175	6.3×11 228	6.3×11 265	8×11.5 240
47		5×11 175	5×11 175	6.3×11 252	6.3×11 228	8×11.5 270	
100	5×11 175	6.3×11 252	6.3×11 252	8×11.5 396	8×11.5 324		
220	6.3×11 252	8×11.5 396	8×11.5 396	8×16 430	← Ripple current (mA rms) at 105°C, 100kHz		
330	8×11.5 396	8×11.5 396			← Case size ΦD×L(mm)		