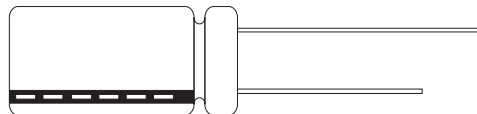


FEATURES

- 105°C, 8,000 ~ 10,000 hours assured
- Suitable for switching power supplies, UPS, Ballast
- Smaller size with large permissible ripple current
- RoHS Compliant



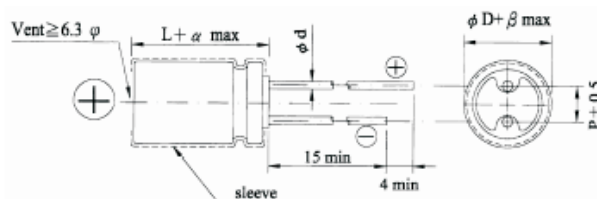
SPECIFICATIONS

Items	Performance							
Rated Voltage Range	200 ~ 400V				450V			
Operating Temperature Range	-40°C ~ +105°C							
Capacitance Tolerance	±20% (at 120Hz, 20°C)							
Leakage Current (at 20 °C)	Time	after 1 minute			after 5 minutes			
	Leakage Current	CV ≤ 1000		CV ≥ 1000		CV ≤ 1000		cv ≥ 1000
		I = 0.1CV + 40 (μA)		I = 0.04CV + 100 (μA)		I = 0.03CV + 15 (μA)		I = 0.02cv + 25 (μA)
		Where C = rated capacitance in μF. V = rated DC working voltage in V.						
	Dissipation Factor (Tan δ at 120Hz, 20 °C)	Rated Voltage		200	250	350	400	450
Tan (max)		0.20	0.20	0.24	0.24	0.24		
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.							
	Rated Voltage		200	250	350	400	450	
	Impedance Ratio	Z (-25) / Z (+20°C)	3	3	5	5	6	
		Z (-40) / Z (+20°C)	6	6	6	6	-	
	Load Life Test	Test Time	8,000 hrs for ΦD = 10mm; 10,000 hrs for ΦD ≥12.5mm					
Capacitance Change		Within ± 20% of initial value						
Dissipation Factor		Less than 200% of specified value						
Leakage Current		Within specified value						
* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated ripple current for 8,000 hrs / 10,000 hrs at 105°C.								
Shelf Life Test	Capacitance Change	Within + 20% of initial value						
	Dissipation Factor	Less than 200% of specified value						
	Leakage Current	Less than 500% of specified value						
	* The above specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hrs at 105°C without voltage applied. The rated voltage shall be applied to the capacitors before the measurements (Refer to JIS C 5102).							
Ripple Current & Frequency Multipliers	Freq. (Hz)	120	1k	10k	100k up			
	ΦD (mm)	10	0.25	0.61	0.88	1.0		
		12.5 ~ 18	0.35	0.66	0.89	1.0		
Other Standards	JIS C 5101-4							

DIMENSIONS

Unit: mm

D	10	12.5	16	18
P	5.0		7.5	
d	0.6		0.8	
	1.5			
	0.5			



DIMENSIONS & PERMISSIBLE RIPPLE CURRENT

Ripple Current: mA/rms at 105°C

V.DC Item μF	200V (2D)				250V (2E)				350V (2V)				400V (2G)				450V (2W)			
	ΦD x L		Ripple Current		ΦD x L		Ripple Current		ΦD x L		Ripple Current		ΦD x L		Ripple Current		ΦD x L		Ripple Current	
			120Hz	100kHz			120Hz	100kHz			120Hz	100kHz			120Hz	100kHz			120Hz	100kHz
4.7																	10 x 20	90	240	
10					10 x 20		140	350					10 x 20		140	350	12.5 x 20	180	450	
15													12.5 x 20		220	550	12.5 x 25	240	600	
22	10 x 20		200	500	12.5 x 20		200	500	12.5 x 20		260	650	12.5 x 25		260	650	16 x 25	290	725	
													16 x 20		270	680	18 x 20	280	705	
33	12.5 x 20		260	650	12.5 x 25		320	800	16 x 20		360	900	16 x 25		360	900	16 x 31.5	390	975	
													18 x 20		450	1,125	18 x 25	380	950	
47	12.5 x 20		390	975	12.5 x 25		390	975	16 x 25		430	1,075	16 x 31.5		470	1,175	18 x 31.5	480	1,200	
					16 x 20		405	1,015	18 x 20		420	1,045	18 x 25		455	1,135				
68	12.5 x 25		470	1,175	16 x 25		520	1,300	16 x 31.5		560	1,400	16 x 35.5		575	1,445	18 x 31.5	630	1,575	
	16 x 20		490	1,225	18 x 20		505	1,265	18 x 25		550	1,375	18 x 31.5		585	1,465				
100	16 x 25		630	1,420	16 x 31.5		680	1,530	18 x 31.5		700	1,575	18 x 35.5		765	1,720				
	18 x 20		615	1,385	18 x 25		655	1,480												
150	16 x 31.5		840	1,890	18 x 31.5		860	1,935												
220	18 x 31.5		1050	2,365	18 x 40		1,130	2,545												
330	18 x 40		1430	3,220																