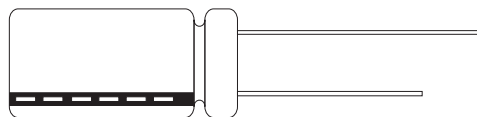


FEATURES

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



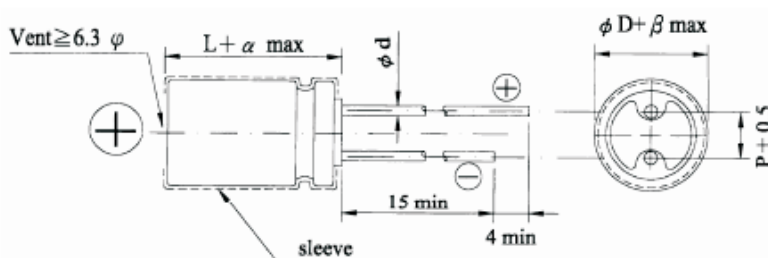
SPECIFICATIONS

Items	Performance					
Rated Voltage Range	160 ~ 400V			450V		
Operating Temperature Range	-40°C ~ +105°C			-25°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
		$I = 0.1CV + 40 (\mu A)$	$I = 0.04CV + 100 (\mu A)$		$I = 0.03CV + 15 (\mu A)$	$I = 0.02CV + 25 (\mu A)$
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 δ (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
Z (-40) / Z (+20°C)		6	6	6	6	-
Load Life Test	Test Time	8,000 hrs for $\Phi D = 10mm$; 10,000 hrs for $\Phi D \geq 12.5mm$				
	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	160V (2C)			200V (2D)			250V (2E)		
	D x L	Ripple Current		D x L	Ripple Current		D x L	Ripple Current	
		120Hz	100kHz		120Hz	100kHz		120Hz	100kHz
10	10 x 16	125	315	10 x 16	125	315	10 x 20	140	350.00
22	10 x 20	200	500	10 x 20	200	500	10 x 20	200	500
33	10 x 20	250	625	10 x 20	260	650	12.5 x 20	320	800
47	10 x 20	300	750	12.5 x 20	390	975	12.5 x 20	390	975
68	12.5 x 20	470	1175	12.5 x 20	470	1175	16 x 20	520	1300
82	12.5 x 20	510	1275	16 x 20	550	1375	16 x 20	550	1,375
100	12.5 x 25	620	1,395	16 x 20	630	1,420	16 x 25	680	1,530
	16 x 20	630	1,420						
150	16 x 20	770	1,735	16 x 25	840	1,890	18 x 25	860	1,935
220	16 x 25	1,020	2,295	18 x 25	1,050	2,365	18 x 31.5	1,130	2545
330	18 x 31.5	1,390	3,130	18 x 35.5	1,430	3,220			

V.DC Item μF	350V (2V)			400V (2G)			450V (2W)		
	D x L	Ripple Current		D x L	Ripple Current		D x L	Ripple Current	
		120Hz	100kHz		120Hz	100kHz		120Hz	100kHz
6.8	10 x 16	110	275	10 x 16	110	275	10 x 20	110	275
10	10 x 20	140	350	10 x 20	140	350	12.5 x 20	180	450
22	13 x 20	260	650	13 x 20	260	650	16 x 20	290	725
33	16 x 20	360	900	16 x 20	360	900	16 x 25	390	975
							18 x 20	380	950
47	16 x 20	430	1,075	16 x 25	470	1,175	18 x 25	480	1,200
				18 x 20	450	1,125			
68	16 x 25	560	1,400	18 x 25	585	1,465	18 x 31.5	630	1,575
	18 x 20	550	1,375						
82	18 x 25	610	1,525	18 x 25	610	1,525	18 x 35.5	715	1,785
100	18 x 25	700	1,575	18 x 31.5	765	1,720	18 x 40	800	1,800
120	18 x 31.5	830	1,865	18 x 35.5	865	1,945			
150	18 x 35.5	960	2,160	18 x 40	985	2,215			