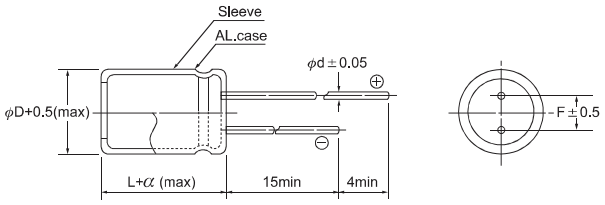
- High ripple current, low E.S.R. and long life
- Suitable for electronic ballast, adaptor and switching power
- Corresponding product to RoHS

SPECIFICATION

Item	Characteristic						
Operation Temperature Range	-40 ~ +105°C				-25 ~ +105°C		
Rated Working Voltage	160 ~ 400VDC				450VDC		
Capacitance Tolerance (120Hz 20°C)	±20%(M)						
Leakage Current (20°C)	I ≦0.06CV +10 (μA) Whichever is greater after 2 minutes I : Leakage Current (μA) C : Rated Capacitance (μF) V : Working Voltage (V)						
Surge Voltage (20°C)	W.V.	160	200	250	350	400	450
	S.V.	200	250	300	400	450	500
Dissipation Factor (tan δ) (120Hz 20°C)	W.V.	160	200	250	350	400	450
	tan δ	0.15	0.15	0.15	0.24	0.24	0.24
Low Temperature Stability	Impedance ratio at 120Hz						
	Rated Voltage (V)	160 ~ 250			350 ~ 400	450	
	-25°C / +20°C	3			6	6	
	-40°C / +20°C	4			6	—	
Load Life	After hours (φD≦8mm 3000 hours φD≧10mm 5000 hours) application of W.V. and +105°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage ≦ rate working voltage)						
	Capacitance Change	≦±20% of initial value					
	Dissipation Factor	≦200% of initial specified value					
	Leakage current	≦initial specified value					
Shelf Life	At + 105°C no voltage application after 1000 hours. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hrs and not more than 48 hrs before measurement. Cap & DF shall meet the limits for load life characteristics, Leakage current ≦500% of the initial specified value						

DIMENSIONS (mm)

φD	10	12.5	16	18
F	5.0	5.0	7.5	7.5
d	0.6	0.6	0.8	0.8
α	1.5	2.0	2.0	2.0



RIPPLE CURRENT COEFFICIENTS

Temperature(°C)	65	75	85	95	105
Multiplier	1.80	1.65	1.50	1.25	1.00

Frequency (Hz)	120	1k	10k	100k
W.V.	Multiplier			
160~450	0.50	0.80	0.90	1.00

CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
Max impedance : Ω 20°C 100kHz
Max ripple current : mA(rms) 105°C 100kHz

V(DC) / Item / μF	160			200			250		
	DxL	IMP.	R.C.	DxL	IMP.	R.C.	DxL	IMP.	R.C.
10						→	10x20	3.18	240
22	10x20	1.47	350	10x20	1.47	350	12.5x20	1.74	380
33	10x20	1.15	430	12.5x20	1.15	460	12.5x25	1.35	510
47	12.5x20	0.92	550	12.5x20	0.92	550	12.5x25	1.08	610
68	12.5x25	0.71	730	12.5x25	0.71	730	16x25	0.84	730
100	16x25	0.59	890	16x25	0.59	890	16x32	0.70	980
150	16x32	0.41	1210	16x32	0.41	1210	18x32	0.49	1290
220	16x32	0.31	1460	18x36	0.31	1640	18x40	0.36	1730
330	18x36	0.25	2010						

V(DC) / Item / μF	350			400			450		
	DxL	IMP.	R.C.	DxL	IMP.	R.C.	DxL	IMP.	R.C.
3.3						→	10x20	4.47	150
4.7						→	12.5x20	3.77	190
10	10x20	2.94	220	10x20	2.94	290	12.5x25	2.95	300
22	12.5x20	1.60	340	12.5x25	1.60	460	16x25	1.61	450
33	12.5x25	1.25	460	12.5x25	1.25	620	16x32	1.25	620
47	16x25	1.00	560	16x25	1.00	740	18x32	1.01	780
68	16x32	0.78	740	16x32	0.78	990	18x36	0.78	990
100	18x36	0.65	1010	18x36	0.65	1350			

All blank voltage on sleeve marking is the same voltage as" → "point to.