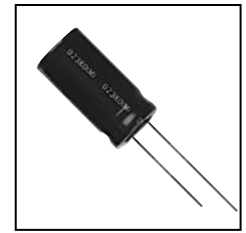


- High ripple current, low E.S.R. and long life
- Suitable for electronic ballast, adaptor and switching power

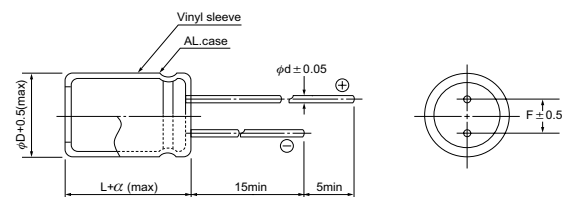


● SPECIFICATION

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)	$I \leq 0.06CV + 10 (\mu A)$				I : Leakage Current (μA)			
	Whichever is greater after 2 minutes				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 ($\phi D \leq 8mm$ 3000 hours $\phi D \geq 10mm$ 5000 hours) application of WV at +105°C the capacitor shall meet the following limits.							
	Capacitance Change	$\leq \pm 20\%$ of initial value						
	Dissipation Factor	$\leq \pm 200\%$ of initial specified value						
	Leakage current	\leq 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 $\leq 500\%$ 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	1.5	1.5	1.5



● RIPPLE CURRENT COEFFICIENTS

Temperature(°c)	65	75	85	95	105
Multiplier	1.8	1.65	1.50	1.25	1.00

Frequency (Hz)	120	1k	10k	100k	
W.V.	Multiplier				
	$\phi D=10mm$	0.25	0.61	0.88	1.00
160~450	$\phi D>10mm$	0.35	0.66	0.89	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

μF	V(Code) Code	Item	160 (2C)			200 (2D)			250 (2E)		
			DxL	IMP.	R.C.	DxL	IMP.	R.C.	DxL	IMP.	R.C.
10	100						→	10x20	3.18	240	
22	220		10x20	1.47	350	10x20	1.47	350	12.5x20	1.74	380
33	330		10x20	1.15	430	12.5x20	1.15	460	12.5x25	1.35	510
47	470		12.5x20	0.92	550	12.5x20	0.92	550	12.5x25	1.08	610
68	680		12.5x25	0.71	730	12.5x25	0.71	730	16x25	0.84	730
100	101		16x25	0.59	890	16x25	0.59	890	16x31.5	0.70	980
150	151		16x31.5	0.41	1210	16x31.5	0.41	1210	18x31.5	0.49	1290
220	221		16x31.5	0.31	1460	18x35.5	0.31	1640	18x40	0.36	1730
330	331		18x35.5	0.25	2010						

μF	V(Code) Code	Item	350 (2V)			400 (2G)			450 (2W)		
			DxL	IMP.	R.C.	DxL	IMP.	R.C.	DxL	IMP.	R.C.
3.3	3R3						→	10x20	4.47	150	
4.7	4R7						→	12.5x20	3.77	190	
10	100		10x20	2.94	220	10x20	2.94	290	12.5x25	2.95	300
22	220		12.5x20	1.60	340	12.5x25	1.60	460	16x25	1.61	450
33	330		12.5x25	1.25	460	12.5x25	1.25	620	16x31.5	1.25	620
47	470		16x25	1.00	560	16x25	1.00	740	18x31.5	1.01	780
68	680		16x31.5	0.78	740	16x31.5	0.78	990	18x35.5	0.78	990
100	101		18x35.5	0.65	1010	18x35.5	0.65	1350			

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