

- Has a high ripple current, low IMP & low ESR and long life characteristics.
- Suitable for output of M/B and switching power supplies.

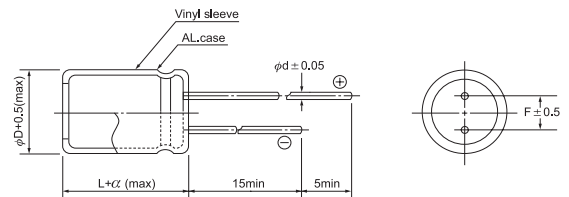


● SPECIFICATION

Item	Characteristic				
Operation Temperature Range	-40 ~ +105°C				
Rated Working Voltage	6.3 ~ 25VDC				
Capacitance Tolerance (120Hz 20°C)	±20%(M)				
Leakage Current (20°C)	$I \leq 0.03CV$ or $3 (\mu A)$ *Whichever is greater after 2 minutes I : Leakage Current (μA) C : Rated Capacitance (μF) V : Working Voltage (V)				
Surge Voltage (20°C)	W.V.	6.3	10	16	25
	S.V.	8	13	20	32
Dissipation Factor (tan δ) (120Hz 20°C)	Add 0.02 per 1000 μF for more than 1000 μF				
	W.V.	6.3	10	16	25
	tan δ	0.22	0.19	0.16	0.16
Low Temperature Stability	Impedance ratio at 120Hz				
	Rated Voltage (V)	6.3	10	16	25
	-25°C / +20°C	2	2	2	2
	-40°C / +20°C	3	3	3	3
Load Life	After 2000 hours application of W.V. and +105°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage \leq rate working voltage)				
	Capacitance Change	$\leq \pm 25\%$ of initial value			
	Dissipation Factor	$\leq 200\%$ of initial specified value			
	Leakage current	\leq initial specified value			
Shelf Life	At +105°C no voltage application after 1000 hours, the capacitor shall meet the limits for load life characteristics. (with voltage treatment)				

● DIMENSIONS (mm)

ϕD	8	10	12.5
F	3.5	5.0	5.0
d	0.6	0.6	0.6
α	1.5	1.5	1.5



● RIPPLE CURRENT COEFFICIENTS

Temperature(°C)	≤ 65	85	105
Multiplier	2.1	1.7	1.0

Frequency(Hz)	120	1k	10k	$\geq 100k$
Multiplier	0.50	0.80	0.90	1.00

● CASE SIZE & MAX RIPPLE CURRENT

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

μF	Code	V(Code) Item	6.3 (0J)			10 (1A)		
			DxL	E.S.R.	R.C.	DxL	E.S.R.	R.C.
680	681					8x14	0.036	1230
820	821		8x11.5	0.036	1230			
1000	102		8x16	0.028	1560	8x16	0.028	1660
						10x12.5	0.028	1700
1200	122		8x16	0.028	1710			
1500	152		8x20	0.018	2040	8x20	0.019	2150
			10x12.5	0.020	1760	10x16	0.019	2200
1800	182		10x16	0.018	2140	10x20	0.013	2660
2200	222		10x20	0.015	2530	10x23	0.012	3000
3300	332		10x23	0.012	3110			
3900	392		10x26	0.012	3480			
4700	472		12.5x26	0.014	3810			

μF	Code	V(Code) Item	16 (1C)			25 (1E)		
			DxL	E.S.R.	R.C.	DxL	E.S.R.	R.C.
470	471		8x11.5	0.036	1160	10x16	0.019	2030
680	681		8x16	0.028	1610			
			10x12.5	0.028	1640			
1000	102		8x20	0.019	2160			
			10x16	0.019	2210			
1500	152		10x20	0.013	2830			
1800	182		10x23	0.012	3300			

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