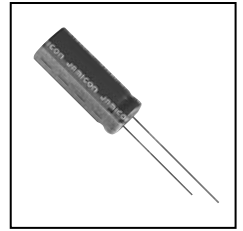




EN: This Datasheet/Document is presented by the manufacturer.

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- High ripple current, low E.S.R. and long life.
- Suitable for output of switching power supplies.

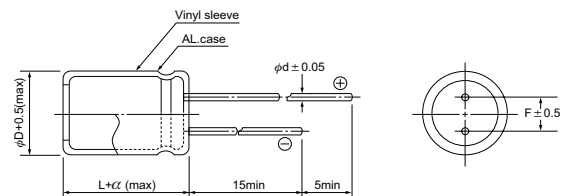


SPECIFICATION

Item	Characteristic							
Operation Temperature Range	-55 ~ +105°C							
Rated Working Voltage	10 ~ 100VDC							
Capacitance Tolerance (120Hz 20°C)	±20%(M) +50% -10%(T)							
Leakage Current (20°C)	I ≤0.01CV *after 3 minutes I : Leakage Current (μA) C : Rated Capacitance (μF) V : Working Voltage (V)							
Surge Voltage (20°C)	W.V.	10	16	25	35	50	63	100
	S.V.	13	20	32	44	63	79	125
Dissipation Factor (tan δ) (120Hz 20°C)	Add 0.02 per 1000 μF for more than 1000 μF							
	W.V.	10	16	25	35	50	63	100
	tan δ	0.12	0.10	0.09	0.08	0.07	0.06	0.06
Low Temperature Stability	Impedance ratio at 120Hz							
	Rated Voltage (V)		10~16			25~100		
	-25°C / +20°C		3			2		
	-55°C / +20°C		6			4		
Load Life	After hours (φD≤8mm 2000 hours, φD≥10mm 3000 hours) application of W.V. at +105°C, the capacitor shall meet the following limits.							
	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 capacitor shall meet the following limits. (with voltage treatment)							
	Capacitance Change		≤±20% of initial value					
	Dissipation Factor		≤200% of initial specified value					
	Leakage current		≤200% of initial specified value					

DIMENSIONS (mm)

ϕD	8	10	12.5	16	18
F	3.5	5.0	5.0	7.5	7.5
d	0.6	0.6	0.6	0.8	0.8
α	1.5	1.5	1.5	1.5	1.5



RIPPLE CURRENT COEFFICIENTS

Temperature(°C)	65	75	85	95	105
Multiplier	2.12	1.92	1.69	1.50	1.00

Frequency(Hz)	60	120	400	1k	10k	100k
W.V.	Multiplier					
10~16V	0.45	0.60	0.83	0.94	0.98	1.00
25~35V	0.38	0.50	0.75	0.90	0.97	1.00
50~100V	0.36	0.46	0.70	0.88	0.94	1.00

● CASE SIZE & MAX RIPPLE CURRENT

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

μF	V(Code)		10 (1A)			16 (1C)			25 (1E)		
	Code	Item	DxL	IMP.	R.C.	DxL	IMP.	R.C.	DxL	IMP.	R.C.
100		101			→	8x11.5	0.348	0.27	8x11.5	0.330	0.34
220		221	8x11.5	0.190	0.36	8x15	0.180	0.44	10x16	0.170	0.59
330		331	8x15	0.152	0.50	10x16	0.144	0.57	10x18	0.136	0.76
470		471	10x16	0.124	0.62	10x18	0.118	0.71	10x20	0.112	0.95
680		681	10x18	0.098	0.78	10x20	0.093	0.90	12.5x20	0.088	1.21
1000		102	10x20	0.080	1.00	12.5x20	0.076	1.16	12.5x25	0.072	1.62
2200		222	12.5x25	0.046	1.61	12.5x30	0.043	1.89	12.5x40	0.041	2.70
3300		332	12.5x30	0.038	2.00	12.5x40	0.036	2.44	16x40	0.034	3.04
4700		472	12.5x40	0.032	2.50	16x40	0.031	2.64			

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

μF	V(Code)		35 (1V)			50 (1H)		
	Code	Item	DxL	IMP.	R.C.	DxL	IMP.	R.C.
47		470			→	8x11.5	0.453	0.29
68		680	8x11.5	0.374	0.30	8x15	0.352	0.39
100		101	8x15	0.311	0.40	10x16	0.292	0.49
220		221	10x18	0.161	0.66	10x20	0.151	0.80
330		331	10x25	0.129	0.93	12.5x20	0.121	1.04
470		471	12.5x20	0.105	1.07	12.5x25	0.099	1.37
680		681	12.5x25	0.083	1.42	12.5x30	0.078	1.79
1000		102	12.5x30	0.068	1.87	12.5x40	0.064	2.48
2200		222	16x40	0.039	2.83			

μF	V(Code)		63 (1J)			100 (2A)		
	Code	Item	DxL	IMP.	R.C.	DxL	IMP.	R.C.
47		470	8x15	0.424	0.35	10x25	0.368	0.44
68		680	10x16	0.330	0.43	12.5x20	0.286	0.51
100		101	10x18	0.274	0.55	12.5x25	0.238	0.68
220		221	12.5x20	0.142	0.92	16x35.5	0.123	1.19
330		331	12.5x25	0.113	1.24	18x40	0.098	1.64
470		471	12.5x30	0.093	1.61			
680		681	16x35.5	0.073	2.09			