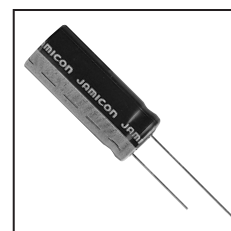


- Endurance : 105°C, 12000~20000hrs
- Recommended Applications : For LED Lightingr
- Corresponding product to RoHS

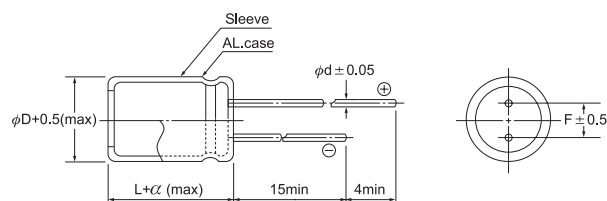


● SPECIFICATION

Item	Characteristic			
Operation Temperature Range	-40 ~ +105°C			
Rated Working Voltage	160 ~ 400VDC			
Capacitance Tolerance (120Hz 20°C)	±20% (M)			
Leakage Current (20°C)	CV ≤ 1000	CV > 1000	I : Leakage Current (μA) C : Rated Capacitance (μF) V : Working Voltage (V)	
	I = 0.1CV + 40 μA (1 minute)	I = 0.04CV + 100 μA (1 minute)		
	I = 0.03CV + 15 μA (5 minute)	I = 0.02CV + 25 μA (5 minute)		
Surge Voltage (20°C)	W.V.	160	200	400
	S.V.	200	250	450
Dissipation Factor (tan δ) (120Hz 20°C)	W.V.	160	200	400
	tan δ	0.24	0.24	0.24
Low Temperature Stability	Impedance ratio at 120Hz			
	Rated Voltage (V)	160	200	400
	-25°C / +20°C	3	3	6
	-40°C / +20°C	8	8	10
Load Life	After 12000~20000 hours application of W.V. at +105°C, the capacitor shall meet the following limits. (DC + ripple peak voltage ≤ rate working voltage)			
	φDxL	6.3x11, 8x9, 10x9	8x11, 10x12.5	10x16
	Life	12000hrs	15000hrs	20000hrs
	Capacitance Change	≤ ±30% of initial value		
	Dissipation Factor	≤ 300% 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 limits for load life characteristics. (with voltage treatment)			

● DIMENSIONS (mm)

φD	6.3	8	10
F	2.5	3.5	5.0
d	0.5	0.6	0.6
α	2.0	2.0	2.0



● RIPPLE CURRENT COEFFICIENTS

Temperature(°C)	≤50	70	85	105
Coefficient	1.90	1.75	1.40	1.00

Frequency(Hz)		120	1k	10k	≥100k
Coefficient	1~5.6μF	1.00	1.60	1.80	2.00
	6.8~18μF	1.00	1.50	1.70	1.90
	22~33μF	1.00	1.40	1.60	1.80

● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
 Max ripple current : mA(rms) 105°C 120Hz

μF	V(DC) Item	160		200		400	
		DxL	R.C.	DxL	R.C.	DxL	R.C.
1.0						6.3x11	24
1.2						8x9	28
1.5						8x9	30
1.8						8x9	33
2.2				6.3x11	36	8x9	36
						8x11	40
2.7						8x11	43
3.3				6.3x11	42	8x11	47
						10x9	48
3.9						10x12.5	57
4.7				6.3x11	49	10x12.5	61
5.6		6.3x11	52	8x9	56		
6.8				8x9	62	10x16	85
8.2				8x9	66		
10		8x9	70	8x11	80		
12				10x9	88		
15		8x11	92				
		10x9	95				
18				10x12.5	113		
22		10x12.5	121				
27				10x16	149		
33		10x16	158				