

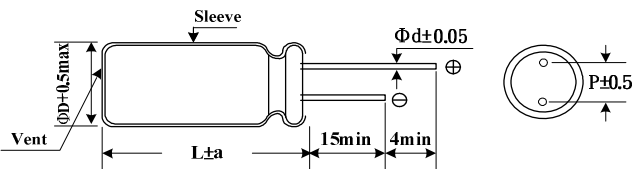


- Endurance : 105°C 12000~20000hrs
- Recommended Applications : For LED Lightingr
- Corresponding product to RoHS

**■ SPECIFICATIONS**

Item	Characteristics			
Category Temperature Range	-40 ~ +105°C			
Rated Voltage Range	160~400VDC			
Rated Capacitance Range	1.0 ~ 33 µ F			
Capacitance Tolerance	± 20 % ( 120Hz , 20°C)			
Leakage Current (20°C)	CV ≤ 1000	CV > 1000		I : Max. leakage current ( µ A) C : Nominal capacitance ( µ F) V : Rated voltage ( V)
	I=0.1CV +40 µ A (1 minute)	I=0.04CV +100 µ A (1minute)		
	I=0.03CV +15 µ A (5 minute)	I=0.02CV +25 µ A (5minute)		
Dissipation Factor(MAX) (tan δ) (120Hz , 20°C)	WV	160	200	400
	tan δ	0.24	0.24	0.24
Low Temperature Stability Impedance Ratio (MAX)	Z((120HZ)	160	200	400
	Z-25°C / Z+20°C	3	3	6
	Z-40°C / Z+20°C	8	8	10
Endurance	After applying rated voltage with rated ripple current for 12000~20000hours at 105°C , the capacitors shall meet the following requirements.			
	Capacitance change	Within ± 30% of initial value		Φ D×L
	D.F. (tan δ)	Not more than 300% of specified value		Life time (hours)
	Leakage current	initial specified value or less		
				6.3x11,8x9,10x9
				8x11,10x12.5
				10x16
Shelf Life	After placed at 105°C without voltage applied for 1000 hours,the capacitors shall meet the same requirement as load life.			

**■ Dimensions [mm]**



ΦD	6.3	8.0	10.0
P	2.5	3.5	5.0
Φd	0.5	0.6	0.6
a	2.0	2.0	2.0

**■ Multiplier for Ripple Current**

Freq. (Hz)		120	1K	10K	100K
coefficient	1~5.6 µ F	1.0	1.6	1.8	2.0
	6.8~18 µ F	1.0	1.5	1.7	1.9
	22~33 µ F	1.0	1.4	1.6	1.8

■ STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ D $\times$ L(mm)	$\tan \delta$	Ripple current (mA/rms105°C) (120Hz)	Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ D $\times$ L(mm)	$\tan \delta$	Ripple current (mA/rms105°C) (120Hz)	
160	5.6	6.3x11	0.24	52	200	18	10x12.5	0.24	113	
	10	8x9	0.24	70		27	10x16	0.24	149	
	15	15	8x11	0.24	92	400	1.0	6.3x11	0.24	24
			10x9	0.24	95		1.2	8x9	0.24	28
	22	10x12.5	0.24	121	1.5		8x9	0.24	30	
	33	10x16	0.24	158	1.8		8x9	0.24	33	
200	2.2	6.3x11	0.24	36	2.2		8x9	0.24	36	
	3.3	6.3x11	0.24	42	2.7		8x11	0.24	40	
	4.7	6.3x11	0.24	49			8x11	0.24	43	
	5.6	8x9	0.24	56	3.3		8x11	0.24	47	
	6.8	8x9	0.24	62			10x9	0.24	48	
	8.2	8x9	0.24	66	3.9		10x12.5	0.24	57	
	10	8x11	0.24	80	4.7	10x12.5	0.24	61		
	12	10x9	0.24	88	6.8	10x16	0.24	85		