

**SU**

High Ripple · Long life Series

- Endurance : 105°C 10000~12000hours
- Recommended Applications : Electronic lighting and power
- Corresponding product to RoHS

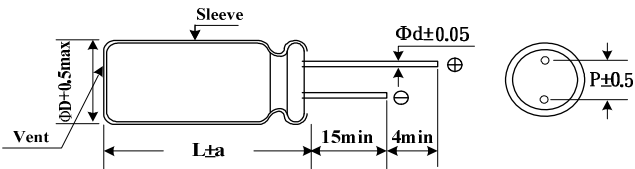
**SU**  
↑  
**SP** Long Life



**SPECIFICATIONS**

Item	Characteristics							
Category Temperature Range	-40 ~ +105°C							
Rated Voltage Range	160~450VDC							
Rated Capacitance Range	6.8 ~ 330 µF							
Capacitance Tolerance	± 20 % ( 120Hz , 20°C)							
Leakage Current (20°C)	I=0.04CV +100 µ A . (After rated voltage applied for 2 minutes) I : Max. leakage current (µ A), C : Nominal capacitance (µ F), V : Rated voltage (V)							
Dissipation Factor(MAX) (tan δ) (120Hz ,20°C)	WV	160	200	250	350	400	450	
	tan δ	0.15	0.15	0.15	0.20	0.20	0.20	
Low Temperature Stability Impedance Ratio (MAX)	Z(120Hz)	160	200	250	350	400	450	
	Z-25°C / Z+20°C	3	3	3	5	5	6	
	Z-40°C / Z+20°C	6	6	6	6	6	8	
Endurance	After applying rated voltage with rated ripple current for 10000~12000hours at 105°C , the capacitors shall meet the following requirements.							
	Capacitance change	Within ± 20% of initial value				Φ D×L	Life time (hours)	
	D.F. (tan δ)	Not more than 200% of specified value				10 Φ	10000	
	Leakage current	initial specified value or less				≥ 13 Φ	12000	
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	10.0	13.0	16.0	18.0
P	5.0	5.0	7.5	7.5
Φd	0.6	0.6	0.8	0.8
a	1.5	2.0	2.0	2.0

**Multiplier for Ripple Current**

Multiplier for Ripple Current	120	1K	10K	100K
coefficient	0.5	0.8	0.9	1.0

■ STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ DxL(mm)	$\tan \delta$	Ripple current (mA/rms105°C) (100KHz)	Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ DxL(mm)	$\tan \delta$	Ripple current (mA/rms105°C) (100KHz)
160 (200)	33	10x16	0.15	500	350(400)	22	13x20	0.20	650
	47	10x20	0.15	580		33	13x25	0.20	900
	68	13x20	0.15	720		47	16x25	0.20	1000
	100	13x25	0.15	970		68	16x32	0.20	1100
	150	16x25	0.15	1120		400 (450)	6.8	10x16	0.20
	220	16x32	0.15	1300	10		10x20	0.20	180
	330	18x36	0.15	1380	18		10x20	0.20	220
560	18x50	0.15	2086	22	13x20		0.20	430	
200 (250)	22	10x16	0.15	500	33		16x20	0.20	450
	33	10x20	0.15	520	47		16x25	0.20	520
	47	13x20	0.15	660	47		16x20	0.20	550
	68	13x25	0.15	720	68	16x32	0.20	700	
	100	16x25	0.15	1120	100	18x32	0.20	870	
	150	16x32	0.15	1620	100	18x50	0.20	1290	
	220	18x32	0.15	2080	450 (500)	4.7	10x16	0.20	110
390	18x50	0.15	3380	10		10x20	0.20	180	
250(300)	10	10x16	0.15	320		15	13x20	0.20	380
	22	10x20	0.15	500		22	13x20	0.20	430
	33	13x20	0.15	800		22	13x25	0.20	500
	47	13x20	0.15	980		22	16x20	0.20	500
	100	16x25	0.15	1530		33	16x25	0.20	560
	150	18x25	0.15	1940		47	16x25	0.20	650
	220	18x36	0.15	2753		47	16x36	0.20	880
330	18x50	0.15	3912	68		16x36	0.20	1110	
350(400)	6.8	10x16	0.20	280	100	18x50	0.20	1560	
	10	10x20	0.20	350					
		13x20	0.20	450					