ALUMINUM ELECTROLYTIC CAPACITORS

SU Long Life Series

■ 105℃ 10000~12000hrs long Life

■ Recommended Applications: Electronic lighting and power

SU → Long Life

SP

■ Specifications

Item	Characteristics
Category Temperature Range	-25 ~ +105℃
Rated Voltage Range	160~450VDC
Rated Capacitance Range	3.3 ~ 330μF
Capacitance Tolerance	± 20 % at 120Hz , 20℃
Leakage Current (MAX) (20℃)	I=0.04CV +100μA , whichever is greater. (After rated voltage applied for 2 minutes) I= Leakage Current (μA) C= Nominal Capacitance (μF) V= Rated Voltage (V) (20℃)

Dissipation Factor (MAX) (tanδ) (120Hz ,20℃)

WV	160	200	250	350	400	450
tanδ	0.15	0.15	0.15	0.20	0.20	0.20

Low Temperature Stability Impedance Ratio (MAX)

WV / Z(120Hz)	160	200	250	350	400	450
Z-25℃ / Z+20℃	3	3	3	5	5	6

Endurance

After applying rated voltage with rated ripple current for 10000~12000hours at 105 ℃,
the capacitors shall meet the following requirements.

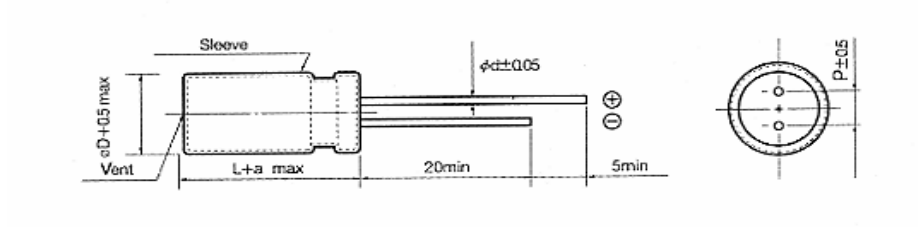
Capacitance Change	Within ± 20 % of initial value
Dissipation Factor	200% or less of initial specified value
Leakage Current	initial specified value or less

ΦD×L	Life Time(hrs)
10Φ	10000
≧13Φ	12000

Shelf Life

After placed at 105℃without voltage applied for 1000 hours,
the capacitors shall meet the same requirement as load life.

■ Diagram of Dimensions



ψD	10.0	13.0	16.0	18.0
P	5.0	5.0	7.5	7.5
ψd	0.6	0.6	0.8	0.8
a	1.5	2.0	2.0	2.0

■ Multiplier for Ripple Current

Frequency coeffcient

Frequency (Hz)	120	1K	10K	100K
Coefficient	0.5	0.8	0.9	1.0

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■Dimensions,Rated Ripple Current

Capacitance (μF)	Rated Voltage(V)					
	160		200		250	
	Size	Ripple	Size	Ripple	Size	Ripple
10					10×16	320
22			10×16	500	10×20	500
33	10×16	500	10×20	520	13×20	800
47	10×20	580	13×20	660	13×20	980
68	13×20	720	13×25	720		
100	13×25	970	16×25	1120	16×25	1530
150	16×25	1120	16×32	1620	18×25	1940
220	16×32	1300	18×32	2080	18×36	2753
330	18×36	1380			18×50	3912
390			18×50	3380		
470						
560	18×50	2086				

Capacitance (μF)	Rated Voltage(V)					
	350		400		450	
	Size	Ripple	Size	Ripple	Size	Ripple
6.8	10×16	280	10×16	140		
10	10×20	350	10×20	180	10×20	180
15					13×20	380
22	13×20	650	13×20	430	13×25	500
33	13×25	900	16×25	520	16×25	560
47	16×25	1000	16×32	700	16×36	880
68	16×32	1100	18×32	870	16×36	1110
100			18×50	1290	18×50	1560

☆ Size: Dψx L (mm) ☆ Ripple Current: 105℃,100KHz(mA/rms)