

Miniature Aluminum Electrolytic Capacitors

SU [For Higher Temperature Range]

125°C 2000 Hours, High Temperature



DESCRIPTION

Applicable for Electronic Ballast, Lighting Ballast

MULTIPLIER FOR RIPPLE CURRENT

FREQUENCY (Hz)	120	1K	10K	50K~100K
Cap ≤ 10µF	1.00	1.45	1.65	1.70
10µF < Cap ≤ 100µF	1.00	1.36	1.48	1.53
100µF < Cap ≤ 1,000µF	1.00	1.25	1.35	1.38
1,000µF < Cap	1.00	1.17	1.25	1.28

ELECTRICAL CHARACTERISTICS

Operating Temperature Range : -40 ~ +125°C

Rated Voltage Range : 10 ~ 63VDC

Rated Capacitance Range : 4.7 ~ 4700µF

Capacitance Tolerance : ±20% at 120Hz, 20°C

Leakage Current (Max.) (20°C): I = 0.01CV or 3µA whichever is greater.

(After Rated Voltage Applied for 2 Minutes)

I = Leakage Current (µA), C = Nominal Capacitance (µF), V = Rated Voltage (V)

Dissipation Factor (Max.) (tanδ) (120Hz, 20°C)

WV (V) :	10	16	25	35	50	63
D.F. (%) :	0.20	0.16	0.14	0.12	0.10	0.09

When nominal capacitance is over 1000µF, the value of tanδ shall be increased by 0.02 for every addition of 1000µF.

Low Temperature Stability Impedance Ratio (Max.)

WV (V) :	10	16	25	35	50	63
Z-25°C/Z+20°C :	3	2	2	2	2	2
Z-25°C/Z+20°C :	6	4	4	4	4	4

Endurance: After the rated voltage and rated ripple current have been applied at 125°C for 2000 hours, the capacitors shall meet the following requirements.

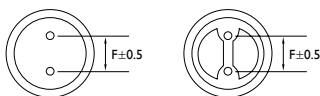
- (a) Capacitance Change: Within ±30% of Initial Value
- (b) Dissipation Factor: 300% or Less of Initial Specified Value
- (c) Leakage Current: Initial Specified Value or Less

Shelf Life: After leaving capacitors under no load at 125°C for 1000 hours.

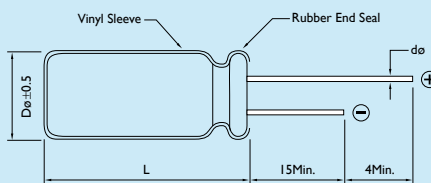
- (a) Capacitance Change: Within ±30% of Initial Value
- (b) Dissipation Factor: 300% or Less of Initial Specified Value
- (c) Leakage Current: 500% or Less of Initial Specified Value

DIAGRAM OF DIMENSIONS

Dimensions: mm



$D\phi < 20$ $D\phi + 0.5$
 $D\phi \geq 20$ $D\phi + 1$



Dφ	F	dφ
5.0	1.5	0.5
6.3		
8.0		0.6
10.0		
13.0	2.0	
16.0		0.8

CASE SIZE & PERMISSIBLE RIPPLE CURRENT OF STANDARD PRODUCTS

D x L: mm

CAP. (μF)	RATED VOLTAGE WV (SURGE VOLTAGE WV)											
	10 (13)		16 (20)		25 (32)		35 (44)		50 (63)		63 (79)	
	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE
4.7											5 x 11	92
10									5 x 11	92	6.3 x 11	145
22							5 x 11	92	6.3 x 11	145	8 x 11	210
33					5 x 11	92	6.3 x 11	145	8 x 11	210	10 x 12	300
47			5 x 11	92	6.3 x 11	145	8 x 11	210	10 x 12	300	10 x 15	410
100	5 x 11	92	6.3 x 11	145	8 x 11	210	10 x 12	300	10 x 15	410	10 x 19.5	510
150	6.3 x 11	145	8 x 11	210	10 x 12	300	10 x 15	410	10 x 19.5	510	13 x 20	740
220	8 x 11	210	10 x 12	300	10 x 15	410	10 x 19.5	510	13 x 20	740	13 x 25	1070
330	10 x 12	300	10 x 15	410	10 x 19.5	510	13 x 20	740	13 x 25	1070	16 x 25	1100
470	10 x 15	410	10 x 19.5	510	13 x 20	740	16 x 25	1100	16 x 25	1100	16 x 32	1200
1000	10 x 19.5	510	13 x 20	740	16 x 25	1100	16 x 32	1200	16 x 32	1200		
2200	13 x 25	1070	16 x 25	1100	16 x 32	1200						
3000	16 x 25	1100	16 x 32	1200								
4700	16 x 32	1200										

Note: I. Ripple Current: (mA/rms) 125°C, 120KHz