Aluminum Electrolytic Capacitors **SM/SS** Series

Features

- 105℃ with 5mm height

Specification

Items	Performance
Capacitance Tolerance	±20 % (at 120Hz, 25 ℃)
Rated Voltage Range	4 to 50 VDC
Capacitance Range	0.1 to 470 uF
Operating Temperature Range	-40 to + 105℃
Leakage Current (at 25℃)	I≦0.02 CV or 3 (uA), whichever is greater. After 3 minutes application of working voltage. I= Leakage current (uA), C= Rated capacitance (uF), V= Rated voltage (V)

Dissipation Factor (Tan δ at 120Hz, 25℃)

Rate Voltage	4	6.3	10	16	25	35	50
Tan δ (max)	0.35	0.24	0.2	0.17	0.15	0.12	0.10

Low Temperature characteristics (at 120Hz)

Impedance ration max.

Rate Voltage	4	6.3	10	16	25	35	50
-25℃/25℃	7	4	3	2	2	2	2
-40℃/25℃	15	10	8	6	4	3	3

Load Life

After 1000 hours application of W.V. at 105℃.
the capacitor shall meet the followin limits.

Capacitance change	:	≦±25% of initial value
Dissipation factor	:	≦200% of initial specified value
Leakage Current	:	≦Initial specified value

Shelf Life

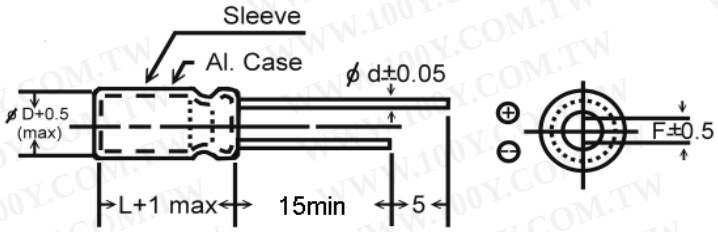
After storage for 500 hours at 105℃, with no voltage applied and being stabilixed at + 25℃, Capacitor shall meet the limit specifed in load life.

Ripple Current & Frequency Multipliers

Freq.(Hz) / Cap.(uF)	60 (50)	120	500	1K	10Kup
Under 47	0.75	1.00	1.20	1.30	1.45
100 to 470	0.80	1.00	1.10	1.15	1.20

Ripple Current & Temperature Multipliers

Temperature (℃)	85	105
Multiplier	1.40	1.00



D	3	4	5	6.3	8
F	1.0	1.5	2.0	2.5	3.5
d	0.4	0.45			0.5

Dimension : ϕ D x L (mm)

Ripple Current mA/rms at 120Hz,105℃

DIMENSION & PERMISSIBLE RIPPLE CURRENT

VDC / uF	4V		6.3V		10V		16V		25V		35V		50V	
	ϕ DxL	mA	ϕ DxL	mA	ϕ DxL	mA	ϕ DxL	mA	ϕ DxL	mA	ϕ DxL	mA	ϕ DxL	mA
0.1													3x5 4x5	1
0.22													3x5 4x5	1
0.33													3x5 4x5	1
0.47													3x5 4x5	3
1													3x5 4x5	4
2.2													3x5 4x5	6
3.3													3x5 4x5	8
4.7									3x5	6	4x5	7	4x5	12
10							3x5	10	4x5	20	5x5	20	6.3x5	24
22					3x5	15	4x5 5x5	20 25	5x5	30	6.3x5	36	6.3x5	25
33					4x5	28	4x5 5x5	20 35	6.3x5	38	8x5	50		
47			4x5	28	5x5	40	5x5 6.3x5	25 45	6.3x5	48	8x5	52		
100			5x5	34	6.3x5	65	6.3x5	75	8x5	85				
220			6.3x5	90	8x5	100	8x5	110						
330			8x5	120										
470	8x5	100												