



Aluminum Electrolytic Capacitors **SM/SS** Series

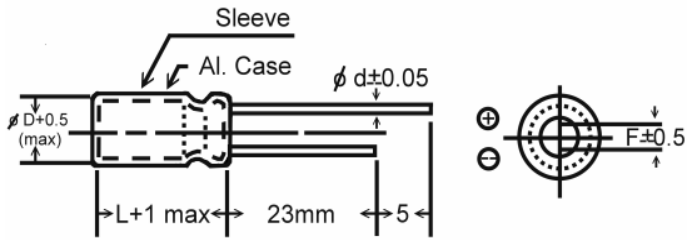
Features

- 105°C with 5mm height

Specification

Items	Performance																									
Capacitance Tolerance	±20 % (at 120Hz, 25 °C)																									
Rated Voltage Range	4 to 50 VDC																									
Capacitance Range	0.1 to 470 uF																									
Operating Temperature Range	-40 to + 105																									
Leakage Current (at 25°C)	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°C)	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°C/25°C	7	4	3	2	2	2	2																		
	-40°C/25°C	15	10	8	6	4	3	3																		
Load Life	After 1000 hours application of W.V. at 105 °C, 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°C, with no voltage applied and being stabilixed at + 25 °C, Capacitor shall meet the limit specified in load life.																									
Ripple Current & Frequency Multipliers	<table border="1"> <thead> <tr> <th>Freq.(Hz)\Cap.(uF)</th> <th>60 (50)</th> <th>120</th> <th>1K</th> <th>10K</th> <th>100K</th> </tr> </thead> <tbody> <tr> <td>Under 47</td> <td>0.70</td> <td>0.90</td> <td>1.00</td> <td>1.10</td> <td>1.10</td> </tr> <tr> <td>100 to 470</td> <td>0.80</td> <td>0.90</td> <td>1.00</td> <td>1.00</td> <td>1.00</td> </tr> </tbody> </table>								Freq.(Hz)\Cap.(uF)	60 (50)	120	1K	10K	100K	Under 47	0.70	0.90	1.00	1.10	1.10	100 to 470	0.80	0.90	1.00	1.00	1.00
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Standards	Satisfied Characteristic W of JIS C																									

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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 : 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	
	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA	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												