

SM Series

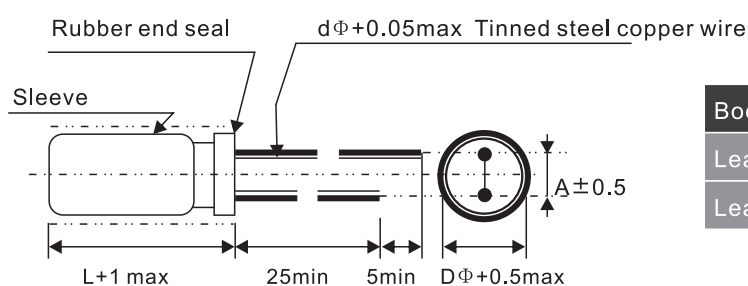
• 5mmL, height, 1000-hours-load life at 85°C



• SPECIFICATIONS

Items	Characteristics						
Category Temperature Range	- 40 to +85°C						
Rated Voltage Range	6.3v to 50Vdc						
Capacitance Tolerance	± 20% (M) (at 20°C ,120Hz)						
Leakage Current	I=0.01CV or 3 μA , whichever is greater. Where, I :Max. Leakage current (μA). C : Nominal capacitance (μF) .V :Rated voltage(V) (at 20°C , after 2 minutes)						
Dissipation Factor (tan δ)	Rated voltage (Vdc)	6.3V	10V	16V	25V	35V	50V
	tan δ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10
Low Temperature Characteristics	Impedance ration max at 120Hz						
	Working voltage	6.3v	10v	16v	25v	35v	50v
	Z-25°C/ Z+20°C	4	3	2	2	2	2
	Z-40°C/ Z+20°C	8	6	4	4	3	3
Load. Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the voltage is applied for 1000 hours at 85°C						
	Capacitance change	≤ ±20% of the initial value					
	DF (tan δ)	≤200 % of the initial specified value					
	Leakage current	≤ The initial specified value					
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hours at 85°C without voltage applied.						
	Capacitance change	≤ ±20% of the initial value					
	DF (tan δ)	≤200 % of the initial specified value					
	Leakage current	≤ The initial specified value					
Ripple Current Multiplier	Temperature coefficient						
	Temperature(°C)	~55	60	70	85		
	Factor	1.65	1.50	1.30	1.00		
	Frequency coefficient						
	cap	freq	50	120	300	1K	10K~
	~47		0.75	1.00	1.15	1.34	1.50
100~470		0.80	1.00	1.08	1.20	1.30	

• Diagram: (Unit: mm)



Body Dia ΦD	4	5	6	8
Lead Dia Φd	0.45	0.50	0.50	0.50
Lead Space A	1.5	2.0	2.5	3.5



● STANDARD RATING

Vdc μF	6.3		10		16		25		35		50			
0.1											4*5	1.0		
0.22	Case size ΦD×L (mm) Rated ripple current (mA rms) at 85°C, 120Hz										4*5	2.0		
0.33													4*5	3.0
0.47													4*5	4.0
1.0													4*5	8.7
2.2													4*5	8.5
3.3							4*5	11	4*5	12	4*5	13		
4.7					4*5	14	4*5	13	4*5	17	5*5	20		
10			4*5	17	4*5	23	5*5	27	5*5	27	6.3*5	31		
22	4*5	21	5*5	30	5*5	35	6.3*5	42	6.3*5	46	6.3*5	46		
33	5*5	34	5*5	41	6.3*5	42	6.3*5	52	6.3*5	52	8*5	66		
47	5*5	37	6.3*5	50	6.3*5	58	6.3*5	58	8*5	72	8*5	80		
100	6.3*5	70	6.3*5	72	8*5	99	8*5	99						
220	8*5	104	8*5	120										
330	8*5	120												

Ripple Current :mA/rms at 120Hz 85°C

Chip Type SMD
 Miniature Type
 General Purpose
 High Frequency Low Impedance
 High Voltage High Reliability
 Non-polar Type
 Large Size Snap-in
 Large Size Screw
 X Metallized Polypropylene Film Capacitors