

SP Series

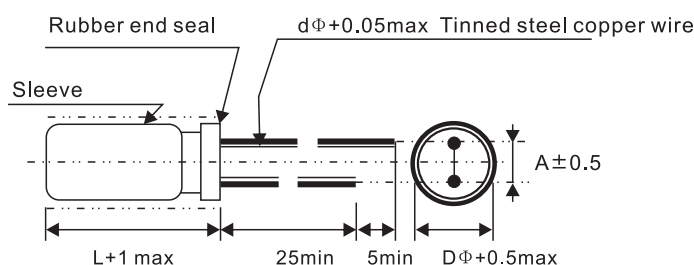
• 5mmL, 85°C, 1000 hours assured non-polarized



● SPECIFICATIONS

Items	Characteristics						
Category Temperature Range	-40 to +85°C						
Rated Voltage Range	6.3 to 50Vdc						
Capacitance Tolerance	± 20% (M) (at 20°C , 120Hz)						
Leakage Current	I=0.05CV + 10 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.)	0.25	0.20	0.17	0.17	0.15	0.13
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	10	8	6	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	≤ ±25% 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	≤ ±25% 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~	
	~33	0.75	1.00	1.15	1.34	1.50	
47up	0.80	1.00	1.08	1.20	1.30		

● Diagram: (Unit: mm)



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



● STANDARD RATING

Vdc μF	6.3		10		16		25		35		50					
0.1											4*5	1.9				
0.22	Case size ΦD×L (mm) Rated ripple current (mA _{rms}) at 85°C, 120Hz										4*5	2.9				
0.33													4*5	3.5		
0.47														4*5	4.2	
1.0													4*5	5.5	4*5	6.1
2.2												4*5	8	4*5	9.1	5*5
3.3					4*5	9	4*5	10	5*5	12	5*5	13				
4.7			4*5	11	5*5	12	5*5	14	5*5	15	6.3*5	16				
10	4*5	15	5*5	19	6.3*5	21	6.3*5	22	6.3*5	24						
22	5*5	26	6.3*5	31	6.3*5	33										
33	6.3*5	36	6.3*5	38												
47	6.3*5	41														

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