

SI Series

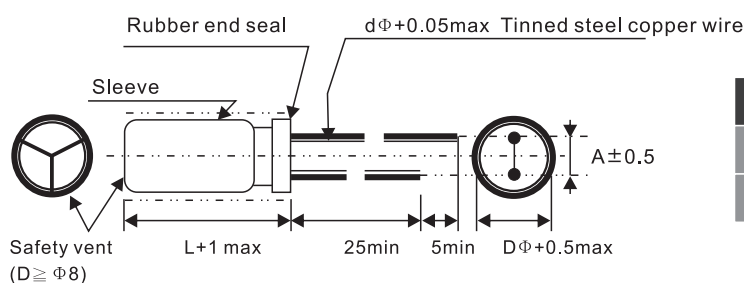
- 7mmL, height, 2000-hours-load life at 85 °C



• SPECIFICATIONS

Items	Characteristics								
Category Temperature Range	- 40 to + 85°C								
Rated Voltage Range	4v to 63Vdc								
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)	4V	6.3V	10V	16V	25V	35V	50V	63V
	tan δ (Max.)	0.35	0.22	0.19	0.16	0.14	0.12	0.10	0.10
Low Temperature Characteristics	Impedance ration max at 120Hz								
	Working voltage	4v	6.3v	10v	16v	25v	35v	50v	63v
	Z-25°C/ Z+20°C	7	4	2	2	2	2	2	2
	Z-40°C/ Z+20°C	14	10	8	6	4	4	4	4
Load. Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the voltage is applied for 2000 hours at 85°C								
	Capacitance change	≤ ±20% of the initial value							
	DF (tan δ)	≤ 200 % of 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							
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	1.20	1.30	1.45		
100~470		0.80	1.00	1.10	1.15	1.20			

• 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	4		6.3		10		16		25		35		50		63	
	0.1												4*7	2.0	4*7	2.0
0.22												4*7	3.0	4*7	3.0	
0.33	Case size ΦD×L (mm)												4*7	4.0	4*7	4.0
0.47							Rated ripple current (mA _{rms}) at 105°C, 120Hz									
1.0																
2.2												4*7	15	4*7	17	
3.3												4*7	18	5*7	21	
4.7											4*7	22	5*7	23	6.3*7	26
10							4*7	25	4*7	26	5*7	30	5*7	34	6.3*7	43
22			4*7	31	4*7	32	5*7	39	6.3*7	41	6.3*7	47	6.3*7	53	8*7	70
33	4*7	32	4*7	32	5*7	35	5*7	43	6.3*7	53	6.3*7	64	8*7	76	8*7	80
47	4*7	38	5*7	38	5*7	47	5*7	59	6.3*7	65	8*7	83	8*7	85	8*7	95
100	5*7	61	5*7	71	5*7	80	6.3*7	90	8*7	100	8*7	115				
150	5*7	75	6.3*7	85	6.3*7	98	8*7	109	8*7	123						
180	6.3*7	85	8*7	95	8*7	108	8*9	115	8*9	128						
220	6.3*7	90	6.3*7	99	6.3*7	118	8*9	135								
330	6.3*7	129	8*7	150												
470	8*9	150	8*9	170												

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