

# MS Series

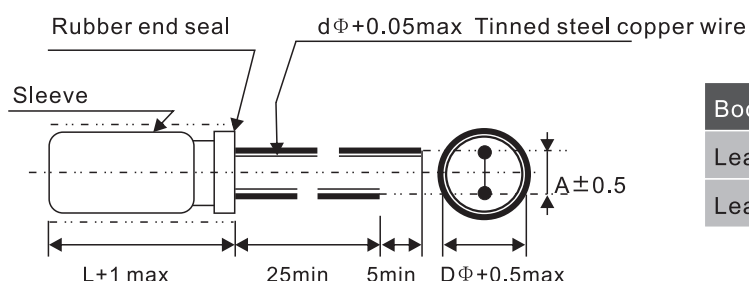
• 5mmL, height, 1000-hours-load life at 85°C



## • 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						
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	1.15	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

