

ML Series

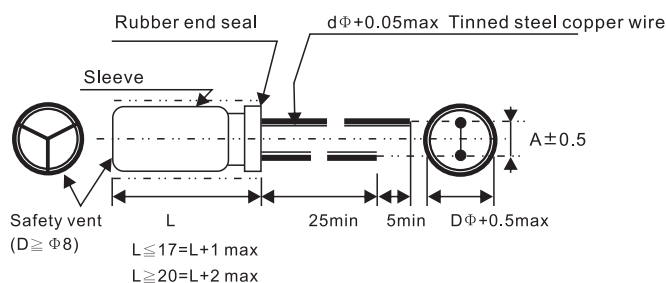
- 105°C, 3000~5000 hours, suitable for switching power, UPS, Ballast (紋波疊加)
- 採用了新型高穩定、高導電率電解液、高信賴技術



• SPECIFICATIONS

Items	Characteristics						
Category Temperature Range	-40 to +105°C						
Rated Voltage Range	160V to 450Vdc						
Capacitance Tolerance	± 20% (M) (at 20°C ,120Hz)						
Leakage Current	I=0.01CV + 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)	160V	200V	250V	350V	400V	450V
	tan δ (Max.)	0.15	0.15	0.15	0.20	0.20	0.22
Low Temperature Characteristics	Impedance ration max at 120Hz						
	Working voltage	160v	200v	250v	350v	400v	450v
	Z-25°C/ Z+20°C	2	2	3	5	5	6
Load. Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the voltage is applied for the specified at 105°C						
	Capacitance change	≤ ±20% of the initial value				φD	load life
	DF (tan δ)	≤ 200 % of the initial specified value				10 φ	3000
	Leakage current	≤ The initial specified value				13 φ ~	5000
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 105°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	105	
	Factor	2.23	2.17	2.0	1.75	1	
	Frequency coefficient						
	cap	freq	120	1k	10k	100k	
	~100		0.40	0.75	0.90	1.00	
100up		0.50	0.85	0.94	1.00		

• Diagram: (Unit: mm)



Body Dia ΦD	8	10	13		16	18
			L ≤ 21	L ≥ 25		
Lead Dia Φd	0.5	0.6	0.6	0.8	0.8	0.8
Lead Space A	3.5	5		7.5	7.5/10	



● STANDARD RATING

Vdc μF	160v		200v		250v		350v		400v		450v	
	D*L	120Hz	D*L	120Hz	D*L	120Hz	D*L	120Hz	D*L	120Hz	D*L	120Hz
10	10*16	60	10*16	65	10*16	80	10*16	80	10*16	90	10*20	95
22	10*16	150	10*16	150	10*20	150	13*21	150	13*21	170	13*25	180
33	10*20	210	10*20	210	13*21	210	13*21	220	13*25	220	16*25	230
47	13*21	260	13*21	260	13*25	260	16*25	280	16*25	300		
68	13*21	360	13*25	350	16*25	360	16*25	380	18*30	450		
100	16*25	450	16*25	450	16*30	480	16*32	520				
220	16*30	700	18*36	750	22*30	780						
330	18*30	730										

Ripple Current :mA/rms at 105°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