

# MR Series

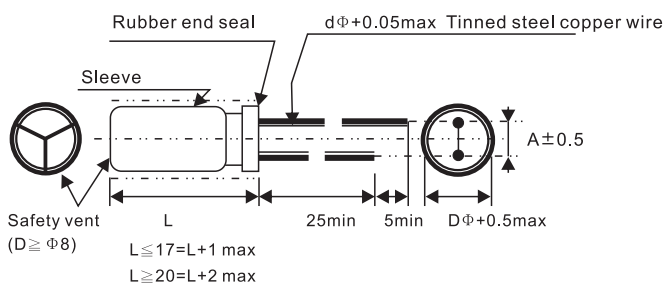
- 125°C, 2000 hours assured (紋波疊加)



## • SPECIFICATIONS

Items	Characteristics						
Category Temperature Range	-25 to +125°C						
Rated Voltage Range	160V to 450Vdc						
Capacitance Tolerance	± 20% (M) (at 20°C ,120Hz)						
Leakage Current	I=0.01CV + 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)	160V	200V	250V	350V	400V	450V
	tan δ (Max.)	0.20	0.20	0.20	0.24	0.24	0.24
Low Temperature Characteristics	Impedance ration max at 120Hz						
	Working voltage	160v	200v	250v	350v	400v	450v
	Z-25°C/ Z+20°C	3	3	3	6	6	6
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 125°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 1000 hours at 125°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	75	85	105	125	
	Factor	2.20	2.10	2.0	1.75	1.00	
	Frequency coefficient						
	cap \ freq	120	1k	10k	100k		
	~33	1.0	1.50	1.75	1.80		
47up	1.0	1.30	1.40	1.50			

## • Diagram: (Unit: mm)



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



● STANDARD RATING

CAP(μF)	160v		200v		300v		350v		400v		450v	
	D*L	Ripple	D*L	Ripple	D*L	Ripple	D*L	Ripple	D*L	Ripple	D*L	Ripple
4.7							10*20	53	10*20	53	10*25	58
10			10*20	78	10*20	78	10*25	85	10*20	86	13*21	86
22	10*20	115	10*20	125	13*21	128	13*21	140	13*25	142	16*25	154
33	10*25	154	13*21	157	13*25	171	16*20	185	16*25	189	16*32	203
47	13*21	187	13*25	204	16*25	210	16*32	245	16*32	245		
100	13*25	245	16*25	250	16*31	292						
220	16*25	330	16*25	330								
330	18*30	440										

Ripple Current :mA/rms at 125°C, 120Hz

- 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 Filme Capacitors