



# Metallized Polyester Capacitor -Radial

MFTB



## Construction:

Dielectric : Metallized Polyester Film  
 Winding : non-inductive type.  
 Leads : Tinned Wire.  
 Outer coating : Flame retarding epoxy resin.

## Feature:

Self-healing property.  
 Safe-film construction.  
 Materials conform to ROHS.  
 Ultra-miniature size.

## Recommended Application:

Power factor correction(PFC)usage.

## Electrical Characteristics:

Related Documents	IEC 60384-2			
Rated Voltage	450VDC			
Rated Temperature	-40°C ~ +85°C.			
Usable upper category temperature	+110°C (Derating ratio of rated voltage to +85°C ~ +110°C: 1.5% per °C for Rated Voltage )			
Capacitance Range	0.1 μF ~ 2.2 μF.			
Capacitance Tolerance	± 5% (J) , ± 10% (K)			
Dissipation Factor	1.0 % (max.) at 1KHz. 1.6 % (max.) at 10KHz.			
Insulation Resistance Terminal to Terminal	Voltage charge : 100VDC × 1 minute, At 20°C± 5°C ≥9000MΩ for C ≤ 0.33μF . ≥3000MΩ×μF for C > 0.33μF.			
Withstand Voltage	Terminal to Terminal: (at20°C± 5°C) 1.6 × V <sub>R</sub> applied for 2sec. (cut off current 10mA) Slow-up voltage speed:100V/se			
Rated Voltage Pulse Slope dV/dt (V/μs)	Pitch	10m/m	15m/m	22.5m/m
	V <sub>R</sub>	450VDC	110	45



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## Reliability Test :

Item	Test Method	Requirements
Resistance to soldering heat IEC 60068-2-20''	Solder bath: 260°C± 5°C Immersion time: 10sec± 1sec	Capacitance change $ \Delta C/C  \leq 2\%$ DF change $\Delta \tan \delta$ : 0.5% at 1Khz IR: $\geq$ limit value.
Resistance to vibration IEC 60068-2-6''	Frequency range: 10hz to 55hz Amplitude: 1.5 m/m Duration : 6 hours	There shall be no visible damage, no intermittent contact, no open or short circuit
Damp heat ,steady state IEC 60068-2-3''	Temperature: 40°C± 2°C Relative humidity: 90% to 95% Duration : 1000 hours	Capacitance change $ \Delta C/C  \leq 5\%$ DF change $\Delta \tan \delta$ : 0.5% at 1Khz IR: $\geq 50\%$ limit value.
Electrical endurance IEC 60384-2''	Temperature: 85°C± 2°C Voltage applied: 1.10×Vr(DC) Duration : 1000 hours	Capacitance change $ \Delta C/C  \leq 5\%$ DF change $\Delta \tan \delta$ : 0.5% at 1Khz IR: $\geq 50\%$ limit value.

Cap. (μF)

Size unit: m/m

R.V.	450VDC				
Cap. \ Size	W	H	T	P	dφ
0.1	13	9.5	4.5	10	0.6
0.15	13	10	5	10	0.6
0.18	13	11	5	10	0.6
0.22	13	11	5.5	10	0.6
0.33	13	13	7	10	0.6
0.1	18	11	5	15	0.8
0.22	18	11	5	15	0.8
0.33	18	11	5	15	0.8
0.47	18	12	6	15	0.8
0.56	18	13	7	15	0.8
0.68	18	13.5	7.5	15	0.8
1.0	18	17.5	7.5	15	0.8
1.5	18	19	10	15	0.8
1.5	26	18.5	8.5	22.5	0.8
2.2	26	20	11	22.5	0.8

Maximum dimensions (mm): W max = W+0.2