



# Metallized Polyester Capacitor -Radial

MFTD



## 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 , 630VDC			
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	0.033 μF ~ 3.3 μF.			
Capacitance Tolerance	± 2% (G) , ± 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	20
	V <sub>R</sub> 630VDC	160	65	30



# Metallized Polyester Capacitor -Radial

## 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  ΔC/C  ≤ 2 % DF change Δtanδ: 0.5% at 1Khz IR: ≥ 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  ΔC/C  ≤ 5 % DF change Δtanδ: 0.5% at 1Khz IR: ≥ 50% limit value.
Electrical endurance IEC 60384-2''	Temperature: 85°C± 2°C Voltage applied: 1.10×Vr(DC) Duration : 1000 hours	Capacitance change  ΔC/C  ≤ 5 % DF change Δtanδ: 0.5% at 1Khz IR: ≥ 50% limit value.

Cap. (μF)

Size unit: m/m

R.V.	450VDC				
Size Cap.	W	H	T	P	dφ
0.047	13	13	5	10	0.6
0.068	12.5	10	5	10	0.6
0.1	12.5	9	4.5	10	0.6
0.1	12.5	11	5.5	10	0.6
0.15	12.5	12	4.5	10	0.6
0.22	12.5	12	6.5	10	0.6
0.33	12.5	12	6	10	0.6
0.47	12.5	15.5	6.5	10	0.6
0.68	12.5	16	7.5	10	0.6
1.0	12.5	19	8	10	0.8
1.5	13.0	21.5	9.5	10	0.8
0.1	18.0	11	5	15	0.8
0.22	18.0	11.5	6	15	0.8
0.33	18.0	13	5	15	0.8
0.47	18.0	13	5.5	15	0.8
0.68	18.0	15.5	5.5	15	0.8
1.0	18.0	17	7.5	15	0.8
1.2	18.0	18	8	15	0.8
1.5	18.0	18.5	8.5	15	0.8
2.2	18.0	21.5	11.5	15	0.8
1.0	26.0	16	7	22.5	0.8
1.5	26.0	17.5	7	22.5	0.8
2.2	26.0	19	9	22.5	0.8
3.3	26.0	23.5	13	22.5	0.8



# Metallized Polyester Capacitor -Radial

Cap. ( $\mu\text{F}$ )

Size unit: m/m

<b>R.V.</b>	<b>630VDC</b>				
Cap. \ Size	<b>W</b>	<b>H</b>	<b>T</b>	<b>P</b>	<b>d<math>\phi</math></b>
<b>0.033</b>	<b>12.5</b>	<b>10.5</b>	<b>4.5</b>	<b>10</b>	<b>0.6</b>
<b>0.047</b>	<b>12.5</b>	<b>13</b>	<b>5</b>	<b>10</b>	<b>0.6</b>
<b>0.068</b>	<b>13.0</b>	<b>13</b>	<b>6</b>	<b>10</b>	<b>0.6</b>
<b>0.1</b>	<b>12.5</b>	<b>16</b>	<b>6</b>	<b>10</b>	<b>0.6</b>
<b>0.047</b>	<b>18.0</b>	<b>11</b>	<b>5</b>	<b>15</b>	<b>0.8</b>
<b>0.068</b>	<b>18.0</b>	<b>11</b>	<b>5</b>	<b>15</b>	<b>0.8</b>
<b>0.1</b>	<b>18.0</b>	<b>11</b>	<b>5</b>	<b>15</b>	<b>0.8</b>
<b>0.22</b>	<b>18.0</b>	<b>14</b>	<b>7</b>	<b>15</b>	<b>0.8</b>
<b>0.33</b>	<b>18.0</b>	<b>15.5</b>	<b>8</b>	<b>15</b>	<b>0.8</b>
<b>0.47</b>	<b>18.0</b>	<b>17.5</b>	<b>9</b>	<b>15</b>	<b>0.8</b>
<b>0.68</b>	<b>18.0</b>	<b>20.5</b>	<b>10.5</b>	<b>15</b>	<b>0.8</b>
<b>1.0</b>	<b>26.0</b>	<b>20.5</b>	<b>9.5</b>	<b>22.5</b>	<b>0.8</b>

www.signal.com.tr