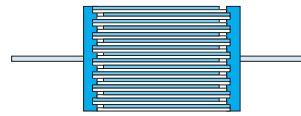


SERIES

MPT



- Metallized Polypropylene Film
- Metal Spray Layer
- Connecting Wire

Construction:

Dielectric : Polypropylene Film .
 Electrodes : Aluminum Metallization.
 Winding : non-inductive type.
 Leads : Tinned Wire.
 Outer coating: Insulating tape wrapping and epoxy resin end filled.

Feature:

Low Dissipation Factor at high frequency.
 High stability of capacitance & DF.
 Self-healing property.
 High insulation resistance.

Recommended Application:

Timing , Tuned , Oscillator circuits.
 Temperature compensation circuits.
 Telecommunications and data processing.
 Professional electronics testing equipment.
 Industrial instruments.

Electrical Characteristics:

Related Documents	IEC 60384-16; CECC31200						
Rated Voltage	250VDC, 400VDC, 630VDC.						
Rated Temperature	-40°C ~ +85°C.						
Usable upper category temperature	+105°C. (Derating ratio of rated voltage to +85°C ~ +105°C: 1.5% per °C for Rated Voltage)						
Capacitance Range	0.01 μF ~ 10 μF.						
Capacitance Tolerance	±3%(H), ±5%(J), ±10%(K)						
Dissipation Factor	KHz	C ≤ 0.1 μF	0.1 < C ≤ 0.1 μF	1.0 < C ≤ 3.0 μF	3.0 < C ≤ 5.0 μF	5.0 < C ≤ 10 μF	
	1	≤ 0.10%	≤ 0.10%	≤ 0.10%	≤ 0.10%	≤ 0.10%	
	100	≤ 0.40%	≤ 0.70%	≤ 1.20%	≤ 1.80%	≤ 2.80%	
Insulation Resistance	Terminal to Terminal: (at 20 ± 5°C) , Voltage charge time : 1 minute. Voltage charge: 100VDC ≥ 30000MΩ for C ≤ 0.33 μF , ≥ 10000MΩ × μF for C > 0.33 μF						
Withstand Voltage	Terminal to Terminal: (at 20°C ± 5°C) 1.6 × V _R applied for 2sec. (cut off current 10mA)						
Rated Voltage Pulse Slope dV/dt (V/μs)	V.R	Length	14m/m	19m/m	27m/m	33m/m	44m/m
	250VDC		12	8	5	3	2
	400VDC		15	12	7.5	5	3
	630VDC		22	16	12	7	4



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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 $\Delta C/C$: ≤ 1% DF change $\Delta \tan \delta$: 0.1% at 1Khz IR: ≥ limit value.
Resistance to vibration IEC 60068-2-6"	Frequency range: 10hz to 55hz Amplitude: 1.5m/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 $\Delta C/C$: ≤ 3% DF change $\Delta \tan \delta$: 0.1% at 1Khz IR: ≥ 50% limit value.
Endurance IEC 60384-17"	Temperature: 85°C ±2°C Voltage applied: 1.25×Vr(DC) Duration: 2000 hours	Capacitance change $\Delta C/C$: ≤ 3% DF change $\Delta \tan \delta$: 0.1% at 1Khz IR: ≥ 50% limit value.

Cap. (μ F)

Size Unit: m/m

R.V. Size Cap. (μ F)	250VDC			400VDC			630VDC		
	L	D	dφ	L	D	dφ	L	D	dφ
0.01	14.0	5.5	0.6	14.0	5.5	0.6	14.0	6.5	0.6
.015	14.0	6.0	0.6	14.0	6.0	0.6	14.0	7.0	0.6
.022	14.0	7.0	0.6	14.0	7.0	0.6	14.0	8.0	0.6
.033	14.0	6.0	0.6	14.0	7.5	0.6	19.0	8.0	0.6
.047	14.0	6.5	0.6	14.0	8.0	0.6	19.0	9.0	0.8
.068	14.0	7.5	0.6	19.0	8.0	0.6	19.0	10.5	0.8
0.1	14.0	8.0	0.6	19.0	8.5	0.8	27.0	11.0	0.8
0.15	19.0	8.0	0.6	19.0	10.0	0.8	27.0	13.0	0.8
0.22	19.0	9.0	0.8	27.0	9.5	0.8	33.0	13.0	0.8
0.33	19.0	10.5	0.8	27.0	11.5	0.8	33.0	16.0	0.8
0.47	25.0	10.5	0.8	27.0	13.0	0.8	33.0	18.0	0.8
0.68	25.0	12.5	0.8	33.0	14.5	0.8	33.0	20.0	0.8
1.0	25.0	12.5	0.8	33.0	17.0	0.8	38.0	21.0	0.8
1.5	33.0	15.0	0.8	33.0	20.5	0.8	44.0	22.0	0.8
2.2	33.0	17.0	0.8	38.0	22.0	0.8	44.0	27.0	0.8
3.3	33.0	19.0	0.8	44.0	26.0	0.8			
4.7	38.0	20.5	0.8						
6.8	44.0	23.0	0.8						
10.0	44.0	26.0	0.8						



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