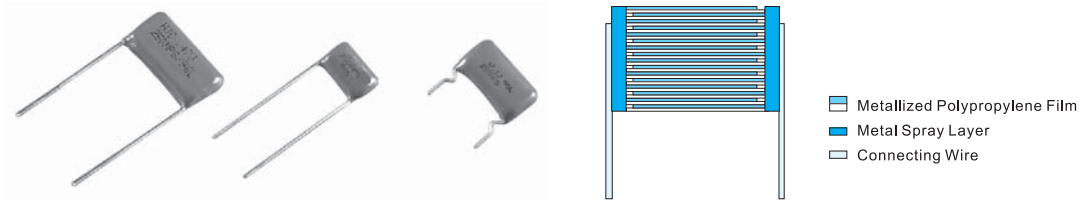


**SERIES**

**MPS**



**Construction:**

Dielectric :Polypropylene Film .  
 Electrodes :Aluminum Metallization.  
 Winding :non-inductive type.  
 Leads :Tinned Wire.  
 Outer coating:Flame retarding epoxy resin.

**Feature:**

Low Dissipation Factor at high frequency.  
 High stability of capacitance & DF.  
 For high frequency & high current application.

**Recommended Application:**

Typical for S-correction in TV-set & Monitor.  
 Electronic ballast circuits.  
 Switching power supply circuits.  
 High pulse load applications.

**Electrical Characteristics:**

Related Documents	IEC 60384-16;CECC 31200				
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	0.022 μF~3.3 μF.				
Capacitance Tolerance	±3%(H),±5%(J),±10%(K)				
Dissipation Factor	KHz	.01 μF < C ≤ .33 μF	.33 μF < C ≤ 1.0 μF	1.0 μF < C ≤ 3.0 μF	3.0 μF < C ≤ 3.3 μF
	1	≤0.05%	≤0.05%	≤0.05%	≤0.05%
	100	≤0.30%	≤0.50%	≤0.80%	≤1.50%
Insulation Resistance	Terminal to Terminal:(at20±5°C) , Voltage charge time :1 minute. Voltage charge: 100VDC ≥50000MΩ for C≤1.0 μF , ≥50000MΩ × μF for C > 1.0 μF				
Withstand Voltage	Terminal to Terminal:(at20±5°C) 1.6 × V <sub>R</sub> applied for 2sec.(cut off current 10mA)				
Rated Voltage Pulse Slope dV/dt (V/μs)	Pitch	10m/m	15m/m	20m/m	27.5m/m
	250VDC	-----	550	300	200
	400VDC	1400	900	550	300
	630VDC	-----	1200	700	400



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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.(μF)

Size Unit:m/m

R.V. Size Cap.(μF)	250VDC					400VDC					630VDC				
	W	H	T	P	dφ	W	H	T	P	dφ	W	H	T	P	dφ
0.022											18.0	11.0	5.0	15.0	0.8
0.027											18.0	11.0	5.5	15.0	0.8
0.033						13.0	12.0	6.0	10.0	0.8	18.0	12.5	6.5	15.0	0.8
0.039						13.0	12.0	6.0	10.0	0.8	18.0	12.5	7.0	15.0	0.8
0.047						13.0	13.0	7.0	10.0	0.8	18.0	13.5	7.5	15.0	0.8
0.056						13.0	13.0	7.0	10.0	0.8	18.0	14.0	8.0	15.0	0.8
0.068						18.0	12.0	6.0	15.0	0.8	18.0	15.0	10.0	15.0	0.8
0.082						18.0	12.5	6.5	15.0	0.8	18.0	15.0	10.0	15.0	0.8
0.10	18.0	11.0	5.5	15.0	0.8	18.0	13.0	7.0	15.0	0.8	23.0	15.5	8.5	20.0	0.8
0.12	18.0	11.5	6.0	15.0	0.8	18.0	13.5	7.5	15.0	0.8	23.0	17.0	8.0	20.0	0.8
0.15	18.0	12.5	6.5	15.0	0.8	18.0	14.5	8.5	15.0	0.8	23.0	17.5	10.5	20.0	0.8
0.18	18.0	13.0	7.0	15.0	0.8	18.0	15.0	9.0	15.0	0.8	23.0	18.5	11.5	20.0	0.8
0.22	18.0	13.5	8.0	15.0	0.8	18.0	15.5	10.0	15.0	0.8	23.0	20.0	12.5	20.0	0.8
0.27	18.0	14.0	8.5	15.0	0.8	23.0	17.0	8.5	20.0	0.8	31.0	19.0	11.0	27.5	0.8
0.33	18.0	15.0	9.5	15.0	0.8	23.0	18.0	9.0	20.0	0.8	31.0	21.0	12.0	27.5	0.8
0.39	23.0	15.0	8.0	20.0	0.8	23.0	18.5	10.0	20.0	0.8	31.0	22.0	13.0	27.5	0.8
0.47	23.0	15.5	8.5	20.0	0.8	23.0	19.5	11.0	20.0	0.8	31.0	23.0	15.0	27.5	0.8
0.56	23.0	16.5	9.5	20.0	0.8	31.0	20.0	10.5	27.5	0.8	31.0	25.0	16.0	27.5	0.8
0.68	23.0	17.5	10.5	20.0	0.8	31.0	20.0	11.0	27.5	0.8					
0.82	23.0	18.5	11.5	20.0	0.8	31.0	21.0	12.0	27.5	0.8					
1.0	23.0	20.0	12.5	20.0	0.8	31.0	22.5	13.5	27.5	0.8					
1.2	31.0	19.0	11.5	27.5	0.8	31.0	24.0	15.0	27.5	0.8					
1.5	31.0	20.0	13.0	27.5	0.8	31.0	25.5	16.5	27.5	0.8					
1.8	31.0	21.5	14.5	27.5	0.8										
2.2	31.0	23.0	16.0	27.5	0.8										
2.7	31.0	25.0	18.0	27.5	0.8										
3.3	31.0	27.0	20.0	27.5	0.8										



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