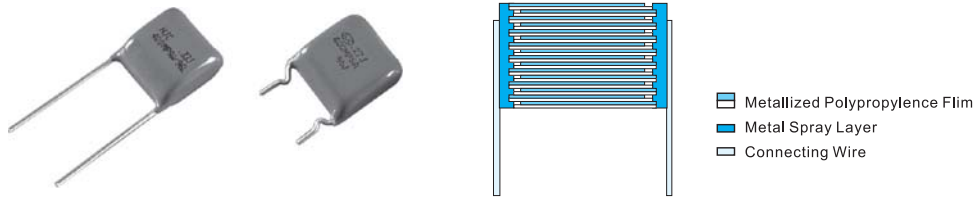


SERIES

MPSA



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 & Very high current application.

Recommended Application:

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

Electrical Characteristics:

Related Documents	IEC 60384-16;CECC 31200			
Rated Voltage	250VDC, 400VDC			
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	0.1 μF~1.0 μF.			
Capacitance Tolerance	±3%(H),±5%(J),±10%(K)			
Dissipation Factor	KHz	0.01 μF < C ≤ .33 μF	0.33 μF < C ≤ 0.68 μF	0.68 μF < C ≤ 1.0 μF
	1	≤0.05%	≤0.05%	≤0.05%
	100	≤0.30%	≤0.40%	≤0.50%
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°C ±5°C) 1.6 × V _R applied for 2sec.(cut off current 10mA)			
Rated Voltage Pulse Slope dV/dt (V/μs)	Pitch	10m/m	15m/m	20m/m
	V.R	250	550	300
	400VDC	-----	1000	600



Ph: 847-675-1865
 Fax: 847-675-3345
 Email: sales@icd-sales.com
 Website: www.icd-sales.com

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 visble 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: 1.25xVr(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.	250VDC					400VDC				
Size Cap	W	H	T	P	dφ	W	H	T	P	dφ
0.1	13.0	12.5	7.0	10.0	0.8	19.0	16.0	9.0	16.0	1.0
0.12	13.0	13.0	7.5	10.0	0.8	19.0	17.0	10.0	16.0	1.0
0.15	18.0	12.5	6.5	15.0	0.8	19.0	18.0	11.0	16.0	1.0
0.22	18.0	13.5	8.0	15.0	0.8	19.0	20.0	13.0	16.0	1.0
0.27	18.0	14.0	8.5	15.0	0.8	19.0	22.0	15.0	16.0	1.0
0.33	18.0	15.0	9.5	15.0	0.8	19.0	24.0	16.0	16.0	1.0
0.39	18.0	16.5	9.0	15.0	0.8	19.0	25.0	17.0	16.0	1.0
0.47	18.0	17.5	10.0	15.0	0.8	19.0	27.0	19.0	16.0	1.0
0.56	18.0	18.5	11.0	15.0	0.8	19.0	28.0	20.0	16.0	1.0
0.68	18.0	19.5	12.5	15.0	0.8	19.0	30.0	22.0	16.0	1.0
0.82	23.0	18.5	11.5	20.0	0.8	24.0	28.0	20.0	20.5	1.0
1.0	23.0	20.0	12.5	20.0	0.8	24.0	30.0	21.0	20.5	1.0



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