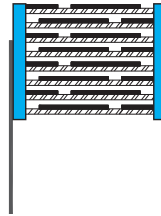


SERIES

HP4



Metallized Polypropylene Film
 Metal spray layer
 Connecting wire

Construction:

Dielectric :Polypropylene Film .
 Electrodes :Single sided metallized polypropylene film.
 Winding :non-inductive type & internal series connection.
 Leads :Tinned Wire.
 Outer coating:Flame retardant epoxy resin .

Feature:

Low Dissipation Factor at high frequency.
 Excellent corona voltage.
 High pulse strength.
 Small in size.

Recommended Application:

Electronic lighting (ballast & car headlamp).
 Switching power supply circuits.
 Pulse applications with high AC voltage and high current.

Electrical Characteristics:

Related Documents	IEC 60384-17;CECC 31900		
Rated Voltage(V _R)	500VAC(1200VDC), 700VAC(1600VDC)		
Rated Temperature	~+85°C for V _R .		
Upper category temperature	+110°C.		
Max. operating temperature	+125°C.		
Category voltage (V _c) (continuous operation with V _{dc} or V _{ac})	Derating ratio of rated voltage V _R to +85°C~+110°C:1.25% per °C for Rated Voltage V _R		
Operating voltage (V _{op}) For short operating periods	$T \leq 110^\circ\text{C}$ $110^\circ\text{C} < T \leq 125^\circ\text{C}$	$V_{op} = 1.25 \times V_c(\text{dc}) \times 2000\text{h}$ (max. hours) $V_{op} = V_c(\text{ac}) \times 2000\text{h}$ (max. hours) $V_{op} = 1.25 \times V_c(\text{dc}) \times 1000\text{h}$ (max. hours) $V_{op} = V_c(\text{ac}) \times 1000\text{h}$ (max. hours)	
Capacitance Range	0.001 μF~0.1 μF.		
Capacitance Tolerance	±2%(G),±3%(H),±5%(J)		
Dissipation Factor	0.05% at 1Khz (C≤0.1 μF) 0.10% at 100Khz (C≤0.1 μF)		
Insulation Resistance	Terminal to Terminal:(at20°C ±5°C) ≥50000MΩ for C≤0.1 μF at 100VDC ×1minute.		
Withstand Voltage	Terminal to Terminal:(at20°C ±5°C) 1.6 × V _R applied for 2sec.		
Rated Voltage Pulse Slope dV/dt (V/μs)	Pitch	V.R	
	15m/m		500VAC 1400 700VAC 3000
	22.5m/m		500VAC 700 700VAC 1400

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:110°C ±2°C Voltage applied: Vc(AC) at 60Hz Duration:2000 hours	Capacitance change $\Delta C/C$: ≤5% DF change $\Delta \tan \delta$:0.1% at 1Khz IR: ≥50% limit value.

Cap.(μ F)

Leads:0.8d ϕ

Unit:m/m

R.V. Size Cap.	500VAC				700VAC			
	W	H	T	P	W	H	T	P
.001	18.0	10.5	4.5	15.0	18.0	10.0	5.0	15.0
.0012	18.0	10.5	4.5	15.0	18.0	10.5	5.0	15.0
.0015	18.0	10.5	4.5	15.0	18.0	10.5	5.0	15.0
.0018	18.0	11.0	5.0	15.0	18.0	11.0	5.0	15.0
.0022	18.0	11.0	5.5	15.0	18.0	11.5	6.0	15.0
.0027	18.0	11.0	5.5	15.0	18.0	12.0	6.0	15.0
.0033	18.0	11.0	5.5	15.0	18.0	12.5	7.0	15.0
.0039	18.0	11.0	5.5	15.0	18.0	13.0	7.5	15.0
.0047	18.0	11.0	5.5	15.0	18.0	14.0	8.0	15.0
.0056	18.0	11.0	5.5	15.0	18.0	14.5	9.0	15.0
.0068	18.0	11.5	5.5	15.0	18.0	15.5	9.5	15.0
.0082	18.0	12.0	6.5	15.0	26.0	13.0	6.0	22.5
.01	18.0	12.5	7.0	15.0	26.0	13.5	6.5	22.5
.012	18.0	13.5	7.5	15.0	26.0	14.0	7.5	22.5
.015	18.0	14.0	8.5	15.0	26.0	16.0	7.5	22.5
.018	18.0	15.0	9.5	15.0	26.0	16.5	8.5	22.5
.022	18.0	17.0	9.5	15.0	26.0	17.5	9.5	22.5
.027	18.0	18.0	11.0	15.0	26.0	18.5	10.5	22.5
.033	26.0	16.5	7.5	22.5				
.039	26.0	17.5	8.5	22.5				
.047	26.0	18.5	9.5	22.5				
.056	26.0	19.5	10.5	22.5				
.068	26.0	20.5	12.0	22.5				
.082	26.0	22.0	13.0	22.5				