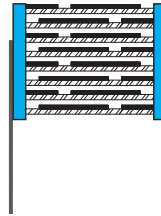
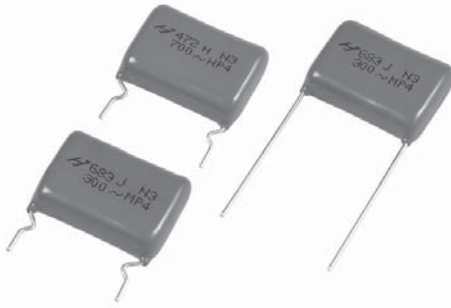


**HUA JUNG**

**Metalized Polypropylene Capacitor-Radial**

**SERIES**

**MP4**



**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 <sub>R</sub> )	300VAC(800VDC),400VAC(1000VDC),500VAC(1200VDC) 700VAC(1600VDC), 900VAC(2000VDC)					
Rated Temperature	~+85°C for V <sub>R</sub> .					
Usable upper category temperature	+105°C. Derating ratio of rated voltage V <sub>R</sub> to +85°C~+105°C:1.25% per °C for Rated Voltage V <sub>R</sub>					
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±5°C) ≥50000MΩfor C≤0.1 μF at 100VDC × 1minute.					
Withstand Voltage	Terminal to Terminal:(at20°C ± 5°C) 1.6 × V <sub>R</sub> applied for 2sec.					
Rated Voltage Pulse Slope dV/dt (V/μs)	V.R Pitch	300VAC	400VAC	500VAC	700VAC	900VAC
	10m/m	400	400	-----	-----	-----
	15m/m	500	1000	1400	3000	4000
	22.5m/m	250	500	700	1400	2500



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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: 105°C ±2°C Voltage applied: 1.25×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.( $\mu F$ )		Leads: 0.6d $\phi$ (P=10)												Leads: 0.8d $\phi$ (P>10)				Unit: m/m			
R.V.	300VAC				400VAC				500VAC				700VAC				900VAC				
Size Cap.	W	H	T	P	W	H	T	P	W	H	T	P	W	H	T	P	W	H	T	P	
.001					13.0	9.0	4.5	10.0	18.0	10.5	4.5	15.0	18.0	10.5	5.0	15.0	18.0	10.5	5.0	15.0	
.0012					13.0	9.0	4.5	10.0	18.0	10.5	4.5	15.0	18.0	11.0	5.0	15.0	18.0	11.0	5.5	15.0	
.0015					13.0	9.0	4.5	10.0	18.0	10.5	4.5	15.0	18.0	11.0	5.0	15.0	18.0	12.0	6.5	15.0	
.0018					13.0	9.0	4.5	10.0	18.0	11.0	5.0	15.0	18.0	11.0	5.5	15.0	18.0	12.5	7.0	15.0	
.0022					13.0	9.0	4.5	10.0	18.0	11.0	5.5	15.0	18.0	11.0	5.5	15.0	18.0	13.0	7.5	15.0	
.0027					13.0	10.0	5.0	10.0	18.0	11.0	5.5	15.0	18.0	11.0	5.5	15.0	18.0	14.0	8.5	15.0	
.0033					13.0	10.0	5.0	10.0	18.0	11.0	5.5	15.0	18.0	11.0	5.5	15.0	18.0	15.0	9.5	15.0	
.0039					13.0	10.5	5.0	10.0	18.0	11.0	5.5	15.0	18.0	11.0	6.0	15.0	18.0	16.5	9.5	15.0	
.0047					13.0	11.0	5.5	10.0	18.0	11.0	5.5	15.0	18.0	11.5	6.5	15.0	18.0	17.5	10.5	15.0	
.0056	13.0	10.0	5.0	10.0	13.0	11.5	6.0	10.0	18.0	11.0	5.5	15.0	18.0	13.0	7.0	15.0	18.0	18.5	11.5	15.0	
.0068	13.0	11.0	5.0	10.0	18.0	10.0	4.5	15.0	18.0	11.5	5.5	15.0	18.0	13.0	7.5	15.0	26.0	15.0	6.5	22.5	
.0082	13.0	11.0	5.5	10.0	18.0	10.5	4.5	15	18.0	12.0	6.5	15.0	18.0	13.5	8.0	15.0	26.0	15.5	7.0	22.5	
.01	13.0	11.5	6.0	10.0	18.0	11.0	5.0	15.0	18.0	12.5	7.0	15.0	18.0	14.5	8.5	15.0	26.0	16.0	7.5	22.5	
.012	13.0	12.0	6.5	10.0	18.0	11.5	5.5	15.0	18.0	13.5	7.5	15.0	18.0	15.5	9.5	15.0	26.0	17.0	8.0	22.5	
.015	13.0	13.0	7.0	10.0	18.0	12.0	6.0	15.0	18.0	14.0	8.5	15.0	18.0	17.0	10.5	15.0	26.0	18.0	9.5	22.5	
.018	13.0	13.5	8.0	10.0	18.0	12.5	7.0	15.0	18.0	15.0	9.5	15.0	18.0	19.0	11.0	15.0	26.0	19.0	10.0	22.5	
.022	18.0	12.0	6.0	15.0	18.0	13.0	7.5	15.0	18.0	17.0	9.5	15.0	26.0	16.5	8.0	22.5	26.0	20.0	11.5	22.5	
.027	18.0	12.5	7.0	15.0	18.0	14.0	8.5	15.0	18.0	18.0	11.0	15.0	26.0	17.5	9.0	22.5					
.033	18.0	13.0	7.5	15.0	18.0	15.0	9.0	15.0	26.0	16.5	7.5	22.5	26.0	18.5	10.0	22.5					
.039	18.0	14.0	8.0	15.0	18.0	15.5	10.0	15.0	26.0	17.5	8.5	22.5	26.0	19.5	11.0	22.5					
.047	18.0	15.5	8.5	15.0	18.0	16.5	11.0	15.0	26.0	18.5	9.5	22.5	26.0	20.5	12.0	22.5					
.056	18.0	16.0	9.0	15.0	26.0	17.0	8.5	22.5	26.0	19.5	10.5	22.5	26.0	22.0	13.0	22.5					
.068	18.0	17.0	10.0	15.0	26.0	18.0	9.5	22.5	26.0	20.5	12.0	22.5	26.0	23.5	14.5	22.5					
.082	26.0	16.5	7.5	22.5	26.0	19.0	10.5	22.5	26.0	22.0	13.0	22.5	26.0	25.0	16.0	22.5					
0.1	26.0	17.5	8.5	22.5	26.0	20.5	11.5	22.5													
0.12	26.0	18.5	9.5	22.5																	
0.15	26.0	19.5	10.5	22.5																	