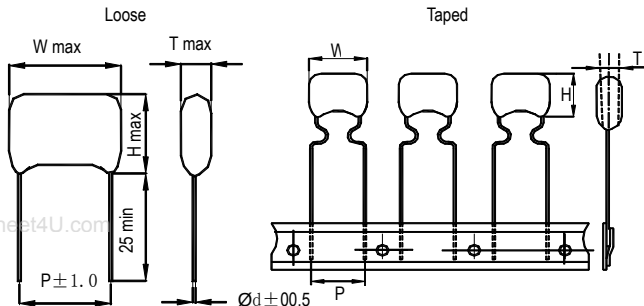


METALLIZED POLYPROPYLENE FILM CAPACITOR

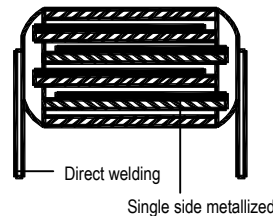
M P P

Radial dipped

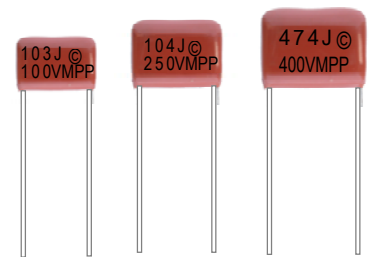
■ Outline Drawing



■ Construction



■ Appearance



MPP are constructed with metallized polypropylene film dielectric, copper lead and epoxy resin powder coating. They are suitable for blocking, by-pass, coupling, decoupling, filtering, timing, tuning temperature compensation, and ideal for use in telecommunication equipments, data processing equipments, industrial instruments, automatic control system and other general electronic equipments.

■ FEATURES:

- ◆ Low loss at high frequency
- ◆ Small inherent temperature rise
- ◆ Flame retardant epoxy resin powder coating (UL94/V-0)

◆ Widely used in high frequency, DC, AC and pulse circuits

■ SPECIFICATION:

1. OPERATING TEMPERATURE: -40°C~85°C
2. CAPACITANCE RANGE: 0.01µF~3.3µF
3. CAPACITANCE TOLERANCE: ±5%(J), ±10%(K), ±20%(M)
4. RATED VOLTAGE(RV): 100VDC, 250VDC, 400VDC, 630VDC
5. DISSIPATION FACTOR: 0.1% MAX AT 1KHZ, 25°C
6. INSULATION RESISTANCE(IR): >30000 MΩ (C ≤ 0.33µF)
>10000 MΩ·µF (C > 0.33µF)

■ PERFORMANCE

Test Characteristics	Test Methods JIS C 5102	Performance
Withstand voltage: Between terminals	Apply 2.0 times of rated voltage for 60 sec. charge discharge current must be 1A max	Shall be no abnormality
Withstand voltage: Between terminals & enclosure	Apply 2.0 times of rated voltage for 1 to 5 sec	Shall be no abnormality
Insulation resistance: Between terminals	Apply rated voltage ±15% for 60 sec. when rated voltage under 100V.	≤0.33µF ≥ 45,000MΩ
Insulation resistance: Between terminals & enclosure	Apply 100V ±15% when rated voltage from 100V to 500V at 20°C	>0.33µF ≥ 15,000MΩ·µF
Heat proof: Insulation resistance at 85°C	Testing temperature: 85±2°C.	≤0.33µF ≥ 4500MΩ at 85°C
Heat proof: Rate of variation of capacitance at 85°C		>0.33µF ≥ 1500MΩ·F at 85°C
		0%
Humidity test: Appearance	Temperature: 40±2°C; Humidity: 90-95% RH +24 Testing time: 500 - 0 Hrs. Apply voltage: rated voltage. After testing, leave it for about 16 Hrs. at standard condition Withstand voltage is 175% rated voltage, 60 sec.	Shall be no abnormality
Humidity test: Withstand voltage		Shall be no abnormality
Humidity test: Insulation resistance		≤0.33µF ≥ 15000MΩ
Humidity test: Dissipation factor		>0.33µF ≥ 5000MΩ·µF
Humidity test: Rate of variation capacitance		0.0015 (0.15%) Max.
Humidity test: Rate of variation capacitance		Within ±5% of the value before test
Reference Standard	GB 10190(IEC 60384-16) / JIS 5102	



METALLIZED POLYPROPYLENE FILM PACITOR

M P P

Radial dipped

■ **DIMENSIONS:**

100VDC								250VDC							
Part No.	Cap (μ F)	Dimensions(mm)					dv/dt V/ μ s	Part No.	Cap (μ F)	Dimensions(mm)					dv/dt V/ μ s
		W	H	T	P	d Φ				W	H	T	P	d Φ	
MPP103□2AA1-7□□□□□	0.01	11.0	12.5	8.0	7.5	0.6	4	MPP103□2EA1-7□□□□□	0.01	11.0	12.5	8.0	7.5	0.6	15
MPP153□2AA1-7□□□□□	0.015	11.0	13.0	9.0	7.5	0.6	4	MPP153□2EA1-7□□□□□	0.015	11.0	13.5	9.0	7.5	0.6	15
MPP223□2AA1-7□□□□□	0.022	11.0	12.0	7.5	7.5	0.6	4	MPP223□2EA1-7□□□□□	0.022	11.0	12.0	7.5	7.5	0.6	15
MPP333□2AA1-7□□□□□	0.033	11.0	12.5	8.0	7.5	0.6	4	MPP333□2EA1-7□□□□□	0.033	11.0	12.5	8.0	7.5	0.6	15
MPP473□2AA1-7□□□□□	0.047	11.0	12.5	9.0	7.5	0.6	4	MPP473□2EA1-7□□□□□	0.047	11.0	13.5	9.0	7.5	0.6	15
MPP683□2AA1-7□□□□□	0.068	11.0	12.5	8.0	7.5	0.6	4	MPP683□2EA3A0□□□□□	0.068	13.0	13.5	9.0	10	0.6	11
MPP104□2AA1-7□□□□□	0.1	11.0	14.0	8.5	7.5	0.6	4	MPP104□2EA3A0□□□□□	0.1	13.0	13.5	9.0	10	0.6	11
MPP154□2AA3A0□□□□□	0.15	13.0	14.0	8.5	10	0.6	3	MPP154□2EA9A5□□□□□	0.15	19.0	15.5	9.5	15	0.6	7
MPP224□2AA3A0□□□□□	0.22	13.0	15.5	9.5	10	0.6	3	MPP224□2EA9A5□□□□□	0.22	19.0	17.5	10.0	15	0.6	7
MPP334□2AA9A5□□□□□	0.33	19.0	15.5	9.5	15	0.6	2	MPP334□2EA9A5□□□□□	0.33	19.0	19.0	11.5	15	0.8	7
MPP474□2AA9A5□□□□□	0.47	19.0	16.5	10.0	15	0.8	2	MPP474□2EB4B0□□□□□	0.47	24.0	19.5	11.0	20	0.8	6
MPP684□2AA9A5□□□□□	0.68	19.0	18.0	11.5	15	0.8	2	MPP684□2EB4B0□□□□□	0.68	24.0	21.0	12.5	20	0.8	6
MPP105□2AB4B0□□□□□	1.0	24.0	18.0	11.5	20	0.8	1.5	MPP105□2EB9B5□□□□□	1.0	29.0	20.0	11.5	25	0.8	5
MPP155□2AB4B0□□□□□	1.5	24.0	20.0	13.0	20	0.8	1.5	MPP155□2EB9B5□□□□□	1.5	29.0	22.0	13.5	25	0.8	5
MPP225□2AB9B5□□□□□	2.2	29.0	20.5	14.0	25	0.8	1.2	MPP225□2EB9B5□□□□□	2.2	29.0	25.5	15.5	25	0.8	5
MPP335□2AB9B5□□□□□	3.3	29.0	24.0	16.0	25	0.8	1.2	MPP335□2EB9B5□□□□□	3.3	29.0	28.8	18.0	25	0.8	5

400VDC								630VDC							
Part No.	Cap. (μ F)	Dimensions(mm)					dv/dt V/ μ s	Part No.	Cap. (μ F)	Dimensions(mm)					dv/dt V/ μ s
		W	H	T	P	d Φ				W	H	T	P	d Φ	
MPP103□2EA1-7□□□□□	0.01	11.0	12.5	8.0	7.5	0.6	35	MPP103□2GA3A0□□□□□	0.01	13.0	13.5	8.0	10	0.6	30
MPP153□2EA1-7□□□□□	0.015	11.0	13.5	9.0	7.5	0.6	35	MPP153□2GA3A0□□□□□	0.015	13.0	14.5	9.0	10	0.6	30
MPP223□2EA1-7□□□□□	0.022	11.0	14.5	10.0	7.5	0.6	35	MPP223□2GA3A0□□□□□	0.022	13.0	16.5	10.0	10	0.6	30
MPP333□2EA3A0□□□□□	0.033	13.0	15.0	9.0	10	0.6	20	MPP333□2GA9A5□□□□□	0.033	19.0	15.5	9.5	15	0.6	15
MPP473□2EA3A0□□□□□	0.047	13.0	16.0	10.0	10	0.6	20	MPP473□2GA9A5□□□□□	0.047	19.0	16.5	10.5	15	0.6	15
MPP683□2EA9A5□□□□□	0.068	19.0	16.5	9.0	15	0.8	10	MPP683□2GB4B0□□□□□	0.068	24.0	17.5	10.0	20	0.8	10
MPP104□2EA9A5□□□□□	0.1	19.0	17.5	10.0	15	0.8	10	MPP104□2GB4B0□□□□□	0.1	24.0	16.5	9.0	20	0.8	10
MPP154□2EA9A5□□□□□	0.15	19.0	19.0	11.0	15	0.8	10	MPP154□2GB4B0□□□□□	0.15	24.0	18.0	11.0	20	0.8	10
MPP224□2EB4B0□□□□□	0.22	24.0	19.0	10.5	20	0.8	8	MPP224□2GB9B5□□□□□	0.22	29.0	20.5	10.0	25	0.8	4
MPP334□2EB4B0□□□□□	0.33	24.0	20.5	12.0	20	0.8	8	MPP334□2GB9B5□□□□□	0.33	29.0	23.0	12.5	25	0.8	4
MPP474□2EB9B5□□□□□	0.47	29.0	22.0	12.0	25	0.8	7	MPP474□2GC4C0□□□□□	0.47	34.0	23.0	14.0	30	0.8	3
MPP684□2EB9B5□□□□□	0.68	29.0	24.0	14.0	25	0.8	7								
MPP105□2EC4C0□□□□□	1.0	34.0	25.0	15.0	30	0.8	4								