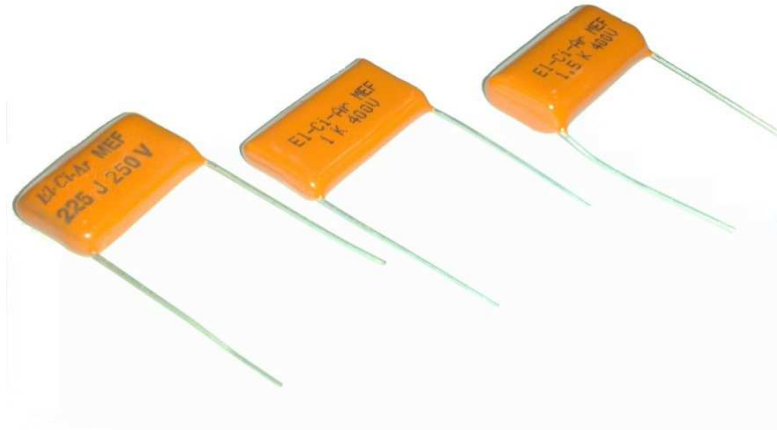


Construction:

MPP Capacitors are wound with Metallized polypropylene film as dielectric and copper clad steel wire and epoxy coating.

Features:

- Self healing properties
- Non - inductive construction
- Low Dissipation and High Moisture resistance



Application:

- Suitable for blocking, bypass, coupling, de-coupling, filtering and other general-purpose applications
- Widely used in high pulse, AC / DC circuits

Specification:

Reference Standard	IEC 60384-16
Operating Temperature	-40°C to + 100°C
Capacitance Range	0.01uF to 3.3uF
Capacitance Tolerance	±5% (J), ±10% (K), ±20% (M)
DC Rated Voltage Vr	100V, 250V, 400V, 630V
Dissipation Factor	0.05% max at 1Khz, 20°C
Dielectric Strength	1.60 x Vr for 2 sec
Insulation Resistance at 100V and 25°C	100,000 MΩ for C ≤ 0.33uF 10,000 sec for C ≥ 0.33 uF
Marking	El-Ci-Ar Logo, MPP, Capacitance, Tolerance, Rated Voltage, Batch No

Test Method & Performance

Endurance

Test Conditions

Temperature : + 100°C

Test Duration: 2000 hours

Voltage Applied: 1.25 x Vr

Performance

Capacitance Change: ±3%

Δ DF: 0.02% max

IR: ≥ 50% of Initial Limit

Resistance to Soldering heat

Test Conditions

Solder Bath Temperature: + 260°C

Dipping Time: 10 sec max

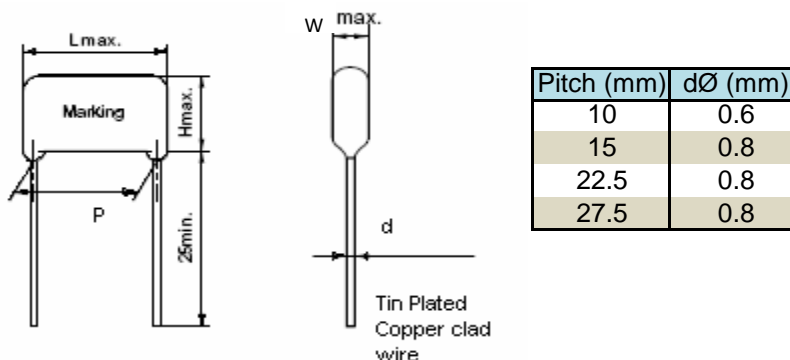
Performance

Capacitance Change: ±2%

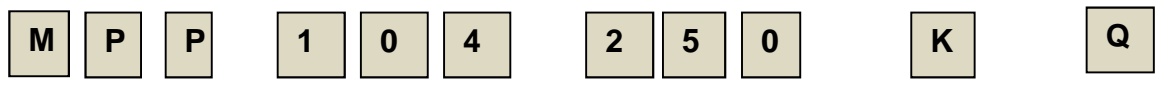
Δ DF: 0.01% max

IR: ≥ Initial Limit

Metallized Polypropylene Capacitor - MPP



Part No. Information



Product Code

MPP

Capacitance

102 = 0.001µF
103 = 0.01µF
104 = 0.1µF
105 = 1.0µF

Rated Voltage

100VDC
250VDC
400VDC
630VDC

Tolerance

J = ±5%
K = ±10%
M = ±20%

Pitch

P = 10
Q = 15
R = 22.5
S = 27.5

Value µF	Code	100V				250V				400V				630V			
		W	H	L	P	W	H	L	P	W	H	L	P	W	H	L	P
0.010	103									5	10	11	10	6	11	11.5	10
0.022	223									5.5	10	11.5	10	6.5	11.5	11.5	10
0.033	333									7	11	11.5	10	7	12	12	10
0.047	473									7.5	10.5	12	10	7.5	11.5	11.5	10
0.047	473					5	10	12	10	5	9	16.5	15	5	9	16.5	15
0.068	683					5	11	12	10	5	9.5	17	15	5	9.5	17	15
0.10	104	6	12	12	10	6	12	12	10	6	11.5	17	15	8	14	17	15
0.15	154	7.5	12	13	10	6	12	17	15	7	13	17	15	8	16.5	25	22.5
0.22	224	7	12	17	15	7	12	17	15	8.5	14	17	15	8.5	17	25	22.5
0.33	334	8	14	17	15	8	14	17	15	8	17.5	17	15	9.5	19	25	22.5
0.47	474	10	16	17	15	10	16	17	15	7.5	12.5	17	15	9	18.5	25	22.5
0.68	684					11	21.5	25	22.5	11	21.5	25	22.5	11	21.5	25	22.5
1.0	105					12	20	25	22.5	12	22	29	27.5				
1.5	155					13.5	22	25	22.5								
2.2	225					12	21	29	27.5								
3.3	335					14	23	29	27.5								

All dimensions are in mm

Other values and sizes are available on request

MPP Bulletin 1 / rev.0

Design and specifications are subject to change without notice

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