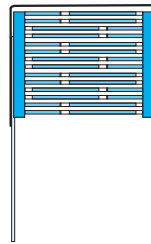


MP2



- Double sided metallized polyester film
- Metal Spray Layer
- Connecting Wire

Construction:

Dielectric : Polypropylene Film .
 Electrodes : Double sided metallized polyester 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.
 Very 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) | 300VAC(800VDC),400VAC(1000VDC),500VAC(1200VDC) 700VAC(1600VDC), 900VAC(2000VDC) | | | | | |
| Rated Temperature | ~+85°C for V _R (DC). ~+105°C for V _R (AC). | | | | | |
| Usable upper category temperature | +105°C. Derating ratio of rated voltage V _R (DC) to +85°C~+105°C:1.25% per °C for Rated Voltage V _R (DC) | | | | | |
| 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) ≥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) | V.R | 300VAC | 400VAC | 500VAC | 700VAC | 900VAC |
| | Pitch | | | | | |
| | 15m/m | 3000 | 3400 | 5000 | 9500 | ----- |
| | 22.5m/m | 1500 | 2200 | 3000 | 5000 | 10000 |

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 ΔC/C : ≤1% DF change Δtan δ :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 ΔC/C : ≤3% DF change Δtan δ :0.1% at 1Khz IR: ≥ 50% limit value. |
| Endurance IEC 60384-17" | Temperature:105°C ±2°C Voltage applied: 1.25×Vr(AC) at 60Hz Duration:2000 hours | Capacitance change ΔC/C : ≤3% DF change Δtan δ :0.1% at 1Khz IR: ≥ 50% limit value. |

| Cap.(μF) | | Leads:0.6dφ (P=10) | | | | Leads:0.8dφ (P>10) | | | | Unit:m/m | | | | | | | | | | | |
|----------|-----------|--------------------|------|------|------|--------------------|------|------|------|----------|------|------|------|--------|------|------|------|--------|------|------|------|
| R.V. | Size Cap. | 300VAC | | | | 400VAC | | | | 500VAC | | | | 700VAC | | | | 900VAC | | | |
| | | W | H | T | P | W | H | T | P | W | H | T | P | W | H | T | P | W | H | T | P |
| .001 | | | | | | 13.0 | 8.0 | 4.0 | 10.0 | 18.0 | 10.0 | 4.5 | 15.0 | 18.0 | 10.0 | 4.5 | 15.0 | 26.0 | 12.0 | 5.0 | 22.5 |
| .0012 | | | | | | 13.0 | 8.0 | 4.0 | 10.0 | 18.0 | 10.5 | 5.0 | 15.0 | 18.0 | 10.5 | 5.0 | 15.0 | 26.0 | 12.5 | 5.0 | 22.5 |
| .0015 | | | | | | 13.0 | 8.5 | 4.5 | 10.0 | 18.0 | 10.5 | 5.0 | 15.0 | 18.0 | 10.5 | 5.0 | 15.0 | 26.0 | 13.5 | 5.5 | 22.5 |
| .0018 | | | | | | 13.0 | 10.0 | 4.5 | 10.0 | 18.0 | 10.5 | 5.0 | 15.0 | 18.0 | 11.0 | 5.0 | 15.0 | 26.0 | 13.5 | 6.0 | 22.5 |
| .0022 | | | | | | 13.0 | 10.5 | 5.0 | 10.0 | 18.0 | 10.5 | 5.5 | 15.0 | 18.0 | 11.5 | 5.5 | 15.0 | 26.0 | 13.5 | 6.0 | 22.5 |
| .0027 | | | | | | 13.0 | 10.5 | 5.0 | 10.0 | 18.0 | 10.5 | 5.5 | 15.0 | 18.0 | 12.0 | 6.0 | 15.0 | 26.0 | 13.5 | 6.0 | 22.5 |
| .0033 | | | | | | 13.0 | 11.0 | 5.5 | 10.0 | 18.0 | 11.0 | 5.5 | 15.0 | 18.0 | 12.0 | 6.5 | 15.0 | 26.0 | 13.5 | 6.5 | 22.5 |
| .0039 | | | | | | 13.0 | 12.0 | 6.0 | 10.0 | 18.0 | 11.0 | 5.5 | 15.0 | 18.0 | 13.0 | 7.5 | 15.0 | 26.0 | 13.5 | 6.5 | 22.5 |
| .0047 | | | | | | 13.0 | 12.5 | 7.0 | 10.0 | 18.0 | 11.0 | 5.5 | 15.0 | 18.0 | 14.0 | 8.0 | 15.0 | 26.0 | 13.5 | 6.5 | 22.5 |
| .0056 | | | | | | 13.0 | 13.0 | 7.5 | 10.0 | 18.0 | 11.5 | 6.0 | 15.0 | 18.0 | 14.5 | 9.0 | 15.0 | 26.0 | 14.0 | 6.5 | 22.5 |
| .0068 | | | | | | 18.0 | 11.0 | 5.0 | 15.0 | 18.0 | 12.0 | 6.5 | 15.0 | 18.0 | 15.0 | 9.0 | 15.0 | 26.0 | 14.0 | 7.5 | 22.5 |
| .0082 | | | | | | 18.0 | 11.5 | 5.5 | 15.0 | 18.0 | 12.5 | 7.0 | 15.0 | 26.0 | 15.0 | 6.0 | 22.5 | 26.0 | 16.0 | 7.5 | 22.5 |
| .01 | 18.0 | 10.5 | 4.5 | 15.0 | 18.0 | 12.0 | 6.0 | 15.0 | 18.0 | 13.5 | 7.5 | 15.0 | 26.0 | 15.5 | 7.0 | 22.5 | 26.0 | 17.0 | 8.0 | 22.5 | |
| .012 | 18.0 | 10.5 | 5.0 | 15.0 | 18.0 | 12.5 | 6.5 | 15.0 | 18.0 | 14.0 | 8.5 | 15.0 | 26.0 | 16.5 | 7.5 | 22.5 | 26.0 | 18.0 | 9.0 | 22.5 | |
| .015 | 18.0 | 11.5 | 5.5 | 15.0 | 18.0 | 13.0 | 7.5 | 15.0 | 18.0 | 15.0 | 9.5 | 15.0 | 26.0 | 17.5 | 8.5 | 22.5 | 26.0 | 19.0 | 10.0 | 22.5 | |
| .018 | 18.0 | 12.0 | 6.0 | 15.0 | 18.0 | 14.0 | 8.0 | 15.0 | 26.0 | 15.0 | 6.5 | 22.5 | 26.0 | 18.5 | 9.5 | 22.5 | 26.0 | 20.0 | 11.5 | 22.5 | |
| .022 | 18.0 | 12.5 | 7.0 | 15.0 | 18.0 | 15.0 | 9.0 | 15.0 | 26.0 | 16.0 | 7.0 | 22.5 | 26.0 | 18.5 | 9.5 | 22.5 | | | | | |
| .027 | 18.0 | 13.0 | 7.5 | 15.0 | 18.0 | 16.0 | 10.0 | 15.0 | 26.0 | 16.5 | 8.0 | 22.5 | 26.0 | 19.5 | 11.0 | 22.5 | | | | | |
| .033 | 18.0 | 14.0 | 8.5 | 15.0 | 26.0 | 15.5 | 7.0 | 22.5 | | | | | | | | | | | | | |
| .039 | 18.0 | 15.0 | 9.0 | 15.0 | 26.0 | 16.5 | 7.5 | 22.5 | | | | | | | | | | | | | |
| .047 | 18.0 | 15.5 | 10.0 | 15.0 | 26.0 | 17.0 | 8.5 | 22.5 | | | | | | | | | | | | | |
| .056 | 18.0 | 15.5 | 10.0 | 15.0 | 26.0 | 18.0 | 9.0 | 22.5 | | | | | | | | | | | | | |
| .068 | 26.0 | 16.5 | 8.0 | 22.5 | 26.0 | 19.0 | 10.5 | 22.5 | | | | | | | | | | | | | |
| .082 | 26.0 | 17.5 | 8.5 | 22.5 | 26.0 | 19.0 | 10.5 | 22.5 | | | | | | | | | | | | | |
| 0.1 | 26.0 | 18.5 | 9.5 | 22.5 | 26.0 | 20.5 | 11.5 | 22.5 | | | | | | | | | | | | | |