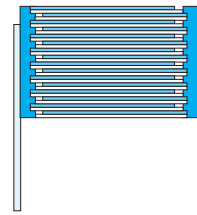
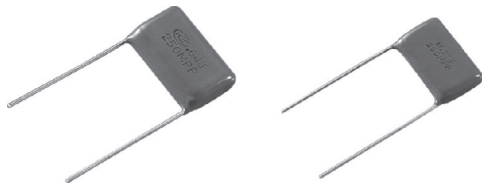


SERIES

MPP



- Metallized Polypropylene Film
- Metal Spray Layer
- Connecting Wire

Construction:

Dielectric :Polypropylene Film .
 Electrodes :Aluminum Metallization.
 Winding :non-inductive type.
 Leads :Tinned Wire.
 Outer coating:Flame retarding epoxy resin.

Feature:

Low Dissipation Factor at high frequency.
 High stability of capacitance & DF.
 Self-healing property.
 High insulation resistance.

Recommended Application:

Typical for S-correction in TV-set .
 Electronic ballast circuits.
 Switching power supply circuits.
 Video tape recorder.

Electrical Characteristics:

| | | | | | | | | |
|--|--|----------|--------------|--------------|--------------|-------------|---------|---------|
| Related Documents | IEC 60384-16 ; CECC 31200 | | | | | | | |
| Rated Voltage | 100VDC , 250VDC ,400VDC , 630VDC. | | | | | | | |
| Rated Temperature | -40°C ~+85°C. | | | | | | | |
| Usable upper category temperature | +105°C. (Derating ratio of rated voltage to +85°C~+105°C:1.5% per °C for Rated Voltage) | | | | | | | |
| Capacitance Range | 0.01 μF~10 μF. | | | | | | | |
| Capacitance Tolerance | ±3%(H),±5%(J),±10%(K) | | | | | | | |
| Dissipation Factor | KHz | C≤0.1 μF | 0.1<C≤1.0 μF | 1.0<C≤3.0 μF | 3.0<C≤5.0 μF | 5.0<C≤10 μF | | |
| | 1 | ≤0.10% | ≤0.10% | ≤0.10% | ≤0.10% | ≤0.10% | | |
| | 100 | ≤0.40% | ≤0.70% | ≤1.20% | ≤1.80% | ≤2.80% | | |
| Insulation Resistance | Terminal to Terminal:(at20±5°C) , Voltage charge time :1 minute. Voltage charge: 100VDC ≥30000MΩ for C≤0.33 μF , ≥10000MΩ × μF for C > 0.33 μF | | | | | | | |
| Withstand Voltage | Terminal to Terminal:(at20°C ±5°C) 1.6 × V _R applied for 2sec.(cut off current 10mA) | | | | | | | |
| Rated Voltage Pulse Slope dV/dt (V/μs) | V.R \ Pitch | 7.5m/m | 10m/m | 15m/m | 20m/m | 27.5m/m | 32.5m/m | 37.5m/m |
| | 100VDC | 130 | 110 | 100 | 70 | 50 | 35 | 25 |
| | 250VDC | 240 | 220 | 200 | 130 | 100 | 70 | 50 |
| | 400VDC | ----- | 350 | 300 | 200 | 150 | 110 | 80 |
| | 630VDC | ----- | 420 | 400 | 250 | 180 | 140 | 90 |

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:85°C ±2°C Voltage applied: 1.25×Vr(DC) Duration:2000 hours | Capacitance change $\Delta C/C$: ≤3% DF change $\Delta \tan \delta$:0.1% at 1Khz IR: ≥ 50% limit value. |

Cap.(μF)

Size Unit:m/m

| R.V. Size Cap.(μF) | 100VDC | | | | | 250VDC | | | | | 400VDC | | | | | 630VDC | | | | |
|--------------------------|--------|------|------|------|-----|--------|------|------|------|-----|--------|------|------|------|-----|--------|------|------|------|-----|
| | W | H | T | P | dφ | W | H | T | P | dφ | W | H | T | P | dφ | W | H | T | P | dφ |
| 0.01 | | | | | | | | | | | 10.5 | 7.5 | 4.0 | 7.5 | 0.6 | 10.5 | 9.0 | 5.5 | 7.5 | 0.6 |
| 0.012 | | | | | | | | | | | 10.5 | 8.5 | 4.0 | 7.5 | 0.6 | 10.5 | 9.5 | 6.0 | 7.5 | 0.6 |
| 0.015 | | | | | | | | | | | 10.5 | 9.0 | 4.5 | 7.5 | 0.6 | 10.5 | 10.5 | 6.0 | 7.5 | 0.6 |
| 0.018 | | | | | | | | | | | 10.5 | 9.5 | 4.5 | 7.5 | 0.6 | 10.5 | 11.0 | 6.5 | 7.5 | 0.6 |
| 0.022 | | | | | | 10.5 | 7.5 | 4.0 | 7.5 | 0.6 | 10.5 | 10.0 | 5.0 | 7.5 | 0.6 | 13.0 | 10.0 | 6.0 | 10.0 | 0.6 |
| 0.027 | | | | | | 10.5 | 8.0 | 4.0 | 7.5 | 0.6 | 10.5 | 10.5 | 5.5 | 7.5 | 0.6 | 13.0 | 11.0 | 6.5 | 10.0 | 0.6 |
| 0.033 | | | | | | 10.5 | 8.5 | 4.5 | 7.5 | 0.6 | 10.5 | 11.0 | 6.0 | 7.5 | 0.6 | 13.0 | 11.5 | 7.0 | 10.0 | 0.6 |
| 0.039 | | | | | | 10.5 | 9.0 | 4.5 | 7.5 | 0.6 | 13.0 | 11.0 | 5.5 | 10.0 | 0.6 | 13.0 | 12.0 | 8.0 | 10.0 | 0.6 |
| 0.047 | 10.5 | 7.5 | 4.0 | 7.5 | 0.6 | 10.5 | 10.0 | 4.5 | 7.5 | 0.6 | 13.0 | 11.0 | 5.5 | 10.0 | 0.6 | 13.0 | 13.0 | 8.0 | 10.0 | 0.6 |
| 0.056 | 10.5 | 8.0 | 4.0 | 7.5 | 0.6 | 10.5 | 10.5 | 5.0 | 7.5 | 0.6 | 13.0 | 11.5 | 6.0 | 10.0 | 0.6 | 13.0 | 14.0 | 9.0 | 10.0 | 0.6 |
| 0.068 | 10.5 | 9.0 | 4.5 | 7.5 | 0.6 | 10.5 | 11.0 | 5.5 | 7.5 | 0.6 | 13.0 | 12.5 | 6.5 | 10.0 | 0.6 | 18.0 | 12.5 | 7.0 | 15.0 | 0.8 |
| 0.082 | 10.5 | 9.5 | 4.5 | 7.5 | 0.6 | 10.5 | 11.5 | 6.0 | 7.5 | 0.6 | 13.0 | 13.0 | 7.0 | 10.0 | 0.6 | 18.0 | 13.0 | 7.5 | 15.0 | 0.8 |
| 0.1 | 10.5 | 10.0 | 5.0 | 7.5 | 0.6 | 10.5 | 12.0 | 6.5 | 7.5 | 0.6 | 13.0 | 13.5 | 8.0 | 10.0 | 0.6 | 18.0 | 14.0 | 8.0 | 15.0 | 0.8 |
| 0.12 | 10.5 | 10.0 | 5.5 | 7.5 | 0.6 | 13.0 | 11.5 | 6.0 | 10.0 | 0.6 | 18.0 | 12.0 | 6.0 | 15.0 | 0.8 | 18.0 | 15.5 | 8.0 | 15.0 | 0.8 |
| 0.15 | 10.5 | 11.0 | 6.0 | 7.5 | 0.6 | 13.0 | 12.0 | 6.5 | 10.0 | 0.6 | 18.0 | 12.5 | 7.0 | 15.0 | 0.8 | 18.0 | 16.5 | 9.0 | 15.0 | 0.8 |
| 0.18 | 10.5 | 11.5 | 6.5 | 7.5 | 0.6 | 13.0 | 12.5 | 7.0 | 10.0 | 0.6 | 18.0 | 13.5 | 8.5 | 15.0 | 0.8 | 18.0 | 17.5 | 10.0 | 15.0 | 0.8 |
| 0.22 | 13.0 | 11.5 | 6.0 | 10.0 | 0.6 | 13.0 | 13.0 | 7.5 | 10.0 | 0.6 | 18.0 | 15.0 | 8.0 | 15.0 | 0.8 | 18.0 | 18.5 | 11.5 | 15.0 | 0.8 |
| 0.27 | 13.0 | 12.0 | 6.5 | 10.0 | 0.6 | 18.0 | 13.0 | 6.0 | 15.0 | 0.8 | 18.0 | 16.0 | 8.5 | 15.0 | 0.8 | 25.5 | 18.0 | 9.0 | 22.5 | 0.8 |
| 0.33 | 13.0 | 13.0 | 7.0 | 10.0 | 0.6 | 18.0 | 14.0 | 6.5 | 15.0 | 0.8 | 18.0 | 17.0 | 9.5 | 15.0 | 0.8 | 25.5 | 19.0 | 10.0 | 22.5 | 0.8 |
| 0.39 | 13.0 | 13.5 | 7.5 | 10.0 | 0.6 | 18.0 | 14.5 | 7.0 | 15.0 | 0.8 | 18.0 | 18.0 | 10.5 | 15.0 | 0.8 | 25.5 | 20.0 | 11.0 | 22.5 | 0.8 |
| 0.47 | 13.0 | 14.0 | 8.5 | 10.0 | 0.6 | 18.0 | 15.0 | 8.0 | 15.0 | 0.8 | 25.5 | 16.0 | 9.0 | 22.5 | 0.8 | 25.5 | 21.0 | 12.0 | 22.5 | 0.8 |
| 0.56 | 18.0 | 14.0 | 7.0 | 15.0 | 0.8 | 18.0 | 16.0 | 8.5 | 15.0 | 0.8 | 25.5 | 17.0 | 10.0 | 22.5 | 0.8 | 25.5 | 22.5 | 13.5 | 22.5 | 0.8 |
| 0.68 | 18.0 | 15.0 | 7.5 | 15.0 | 0.8 | 18.0 | 17.0 | 9.5 | 15.0 | 0.8 | 25.5 | 18.0 | 11.0 | 22.5 | 0.8 | 25.5 | 24.0 | 15.0 | 22.5 | 0.8 |
| 0.82 | 18.0 | 15.5 | 8.0 | 15.0 | 0.8 | 18.0 | 18.5 | 10.0 | 15.0 | 0.8 | 25.5 | 20.0 | 11.0 | 22.5 | 0.8 | 25.5 | 25.5 | 16.5 | 22.5 | 0.8 |
| 1.0 | 18.0 | 16.5 | 9.0 | 15.0 | 0.8 | 18.0 | 20.0 | 11.0 | 15.0 | 0.8 | 25.5 | 21.5 | 12.5 | 22.5 | 0.8 | 31.0 | 25.0 | 16.0 | 27.5 | 0.8 |
| 1.2 | 18.0 | 17.5 | 10.0 | 15.0 | 0.8 | 25.5 | 18.0 | 9.0 | 22.5 | 0.8 | 25.5 | 23.0 | 14.0 | 22.5 | 0.8 | 31.0 | 27.0 | 18.0 | 27.5 | 0.8 |
| 1.5 | 18.0 | 18.5 | 11.5 | 15.0 | 0.8 | 25.5 | 19.5 | 10.5 | 22.5 | 0.8 | 25.5 | 24.5 | 15.5 | 22.5 | 0.8 | | | | | |
| 1.8 | 25.5 | 18.0 | 9.0 | 22.5 | 0.8 | 25.5 | 20.5 | 11.5 | 22.5 | 0.8 | | | | | | | | | | |
| 2.2 | 25.5 | 19.0 | 10.0 | 22.5 | 0.8 | 25.5 | 22.0 | 13.0 | 22.5 | 0.8 | | | | | | | | | | |
| 2.7 | 25.5 | 20.0 | 11.5 | 22.5 | 0.8 | 25.5 | 23.5 | 14.5 | 22.5 | 0.8 | | | | | | | | | | |
| 3.3 | 25.5 | 24.5 | 15.5 | 22.5 | 0.8 | 25.5 | 25.0 | 16.0 | 22.5 | 0.8 | | | | | | | | | | |