

Metallized Polypropylene Film Capacitors



EMPP Series
(Box type)

MERITEK

FEATURES

- Non-inductive construction
- Self-healing properties
- Flame retardant plastic case and epoxy resin (In compliance with UL94V-0)
- High moisture resistance
- Good solderability

SPECIFICATIONS

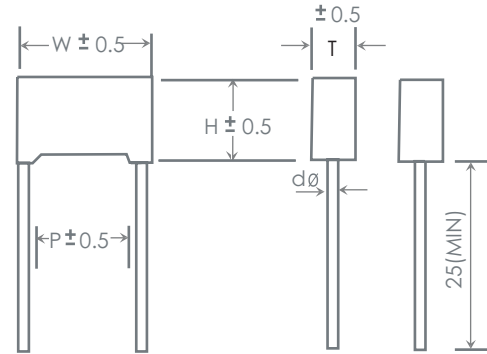
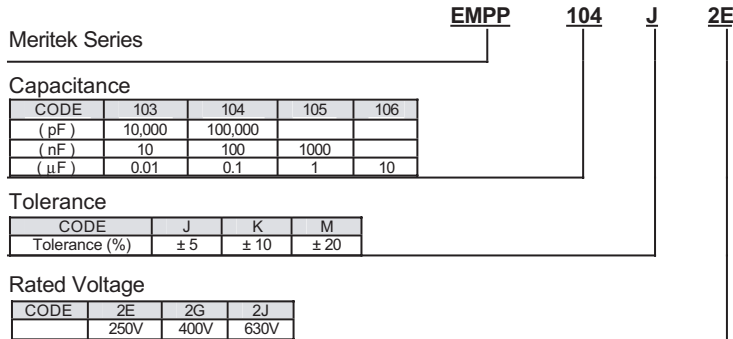
1. Operating temperature: -40°C to +105°C
2. Capacitance range: 0.01μF to 2.2μF
3. Capacitance tolerance: ±5%(J), ±10%(K), ±20%(M)
4. Rated voltage: 250VDC, 400VDC, 630VDC
5. Dissipation factor: 0.1% max. (1KHz)
6. Insulation resistance: 25°C < 0.33μF > 30,000MΩ
25°C > 0.33μF < 10,000μF • MΩ

*Voltage derated at operating temperature >85°C



EMPP are constructed with metallized polypropylene film dielectric, tinned copper leads, plastic casing, and epoxy resin for sealing. They are designed for critical applications wherein reliable operation at high current induced levels is required. EMPP have a high dv/dt ratio while exhibiting low loss, high capacitance stability and long life.

PART NUMBERING SYSTEM



Dimensions in millimeters (mm)

| CASE | Rated Voltage | | | DIM. | W | T | H | P | d∅ |
|----------|---------------|--------|--------|------|------|------|------|------|-----|
| | 250VDC | 400VDC | 630VDC | | | | | | |
| CAP (μF) | | | | CASE | | | | | |
| 0.010 | C1 | C1 | C2 | C1 | 13.0 | 4.0 | 9.0 | 10.0 | 0.6 |
| 0.015 | C1 | C1 | C3 | C2 | 13.0 | 5.0 | 11.0 | 10.0 | 0.6 |
| 0.022 | C1 | C2 | D1 | C3 | 13.0 | 6.0 | 12.0 | 10.0 | 0.6 |
| 0.033 | C1 | C2 | D2 | D1 | 18.0 | 5.0 | 11.0 | 15.0 | 0.6 |
| 0.047 | C1 | C3 | D3 | D2 | 18.0 | 6.0 | 12.0 | 15.0 | 0.8 |
| 0.068 | C2 | D2 | D4 | D3 | 18.0 | 7.5 | 13.5 | 15.0 | 0.8 |
| 0.1 | C3 | D3 | E2 | D4 | 18.0 | 8.5 | 14.5 | 15.0 | 0.8 |
| 0.15 | D2 | D4 | E3 | E1 | 26.5 | 6.0 | 15.0 | 22.5 | 0.8 |
| 0.22 | D2 | E2 | F1 | E2 | 26.5 | 7.0 | 16.5 | 22.5 | 0.8 |
| 0.33 | D3 | E3 | F2 | E3 | 26.5 | 8.5 | 17.0 | 22.5 | 0.8 |
| 0.47 | E2 | E4 | F3 | E4 | 26.5 | 10.0 | 19.0 | 22.5 | 0.8 |
| 0.68 | E2 | F1 | | F1 | 32.0 | 11.0 | 20.0 | 27.5 | 0.8 |
| 1.0 | E4 | F2 | | F2 | 32.0 | 13.0 | 22.0 | 27.5 | 0.8 |
| 1.5 | F1 | F3 | | F3 | 32.0 | 15.0 | 30.0 | 27.5 | 0.8 |
| 2.2 | F2 | | | | | | | | |

Custom sizes and lead spacing available upon request

Custom values and tolerances available upon request

Specifications are subject to change without notice.