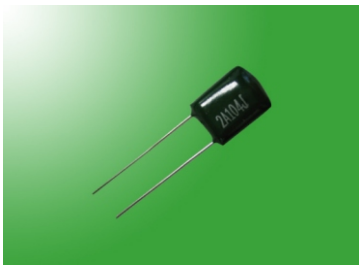
# TMCF12 Polyester/Polypropylene film metal foil capacitor (EPI)

## Features



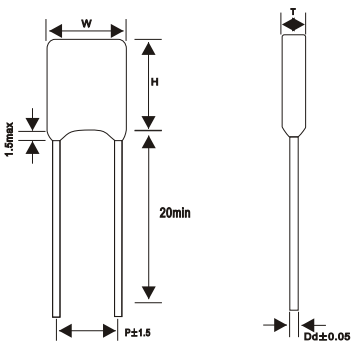
- Temperature coefficient of capacitance at a certain temperature rage is smaller and similar to polycarbonate.
- Low loss at high frequency.
- Small size ,light weight.
- Apply to DC and pulse circuits of electronic equipment and instrument.
- Suitable for electric-light source.
- High insulation resistance,good capacitance stability.
- Suitable for timing circuit and oscillation circuit.

## Configuration

Inductive construction,Adopting two film with positive & nogetive temperature coefficient as the dielectric, Al foil as electrod, undirectional lead-out, epoxy resin dip sealed.

## Specifications&Outline Drawing

| | |
|---|---|
| Reference Standard | GB6346(IEC 60384-11) |
| Climatic Category | 55/85/21 |
| Rated Voltage | 100V,160V,250V,400V,630V,1000V,1200V |
| Capacitance Range | 0.0010~0.1 μF |
| Capacitance Tolerance | ±5%(J),±10%(K) |
| Voltage Proof | 2.0$U_R$(5s) |
| Dissipation Factor | ≤0.005 (20℃，1KHz) |
| Insulation Resistance (20℃,1min) | ≥50000MΩ (20℃，1min) |




## Dimensions

| Cap / μF | 63/100VDC | | | | 160VDC | | | | 250VDC | | | | 400VDC | | | | 630VDC | | | | 1000/1200VDC | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Wmax | Hmax | Tmax | P±1.5 | Wmax | Hmax | Tmax | P±1.5 | Wmax | Hmax | Tmax | P±1.5 | Wmax | Hmax | Tmax | P±1.5 | Wmax | Hmax | Tmax | P±1.5 | Wmax | Hmax | Tmax | P±1.5 |
| 0.0010 | 6.0 | 12.0 | 4.0 | 4.0 | 6.5 | 12.0 | 4.0 | 4.1 | 6.5 | 12.0 | 4.0 | 4.2 | 7.5 | 12.5 | 4.5 | 4.2 | 8.0 | 14.0 | 5.5 | 4.5 | 8.0 | 16.0 | 5.5 | 5.0 |
| 0.0015 | 6.0 | 12.0 | 4.0 | 4.0 | 6.5 | 12.0 | 4.0 | 4.1 | 6.5 | 12.0 | 4.0 | 4.2 | 7.5 | 12.5 | 4.5 | 4.2 | 8.0 | 14.0 | 5.5 | 4.5 | 8.0 | 16.0 | 5.5 | 5.0 |
| 0.0018 | 6.0 | 12.0 | 4.0 | 4.0 | 6.5 | 12.0 | 4.0 | 4.1 | 6.5 | 12.0 | 4.0 | 4.2 | 7.5 | 12.5 | 4.5 | 4.2 | 8.0 | 14.0 | 5.5 | 4.5 | 8.0 | 16.0 | 5.5 | 5.0 |
| 0.0022 | 6.0 | 12.0 | 4.0 | 4.0 | 6.5 | 12.0 | 4.0 | 4.1 | 6.5 | 12.0 | 4.0 | 4.2 | 8.0 | 13.5 | 5.0 | 4.2 | 8.0 | 14.0 | 5.5 | 4.5 | 8.0 | 16.0 | 5.5 | 5.0 |
| 0.0027 | 6.0 | 12.0 | 4.0 | 4.0 | 6.5 | 12.0 | 4.0 | 4.1 | 6.5 | 12.0 | 4.0 | 4.2 | 8.0 | 13.5 | 5.0 | 4.2 | 8.0 | 14.0 | 5.5 | 5.0 | 9.0 | 16.0 | 6.0 | 5.0 |
| 0.0033 | 6.0 | 12.0 | 4.0 | 4.0 | 6.5 | 12.0 | 4.0 | 4.1 | 7.0 | 12.5 | 4.0 | 4.2 | 8.0 | 13.5 | 5.0 | 4.5 | 8.0 | 14.0 | 5.5 | 5.0 | 10.0 | 16.0 | 6.0 | 5.0 |
| 0.0047 | 6.5 | 12.0 | 4.0 | 4.0 | 7.0 | 12.5 | 4.5 | 4.3 | 7.0 | 12.5 | 4.0 | 4.5 | 9.5 | 14.0 | 6.5 | 4.5 | 9.0 | 16.0 | 6.0 | 5.0 | 10.0 | 16.0 | 7.0 | 6.0 |
| 0.0056 | 6.5 | 12.0 | 4.0 | 4.5 | 7.0 | 12.5 | 4.5 | 4.3 | 7.0 | 12.5 | 4.0 | 4.5 | 9.5 | 14.0 | 6.5 | 5.0 | 9.0 | 16.0 | 7.0 | 6.0 | 11.0 | 16.0 | 7.0 | 6.0 |
| 0.0068 | 6.5 | 12.0 | 4.0 | 4.5 | 7.0 | 12.5 | 4.5 | 4.3 | 7.0 | 12.5 | 4.5 | 4.5 | 9.5 | 14.0 | 6.5 | 5.0 | 9.0 | 16.0 | 7.0 | 6.0 | 11.0 | 18.0 | 7.0 | 6.0 |
| 0.0082 | 6.5 | 12.5 | 4.5 | 4.5 | 7.5 | 12.5 | 4.5 | 4.5 | 8.0 | 12.5 | 4.5 | 4.5 | 11.0 | 16.0 | 8.0 | 6.0 | 10.0 | 18.0 | 7.0 | 6.0 | 13.0 | 18.0 | 8.5 | 7.0 |
| 0.010 | 7.0 | 12.5 | 4.5 | 4.5 | 7.5 | 12.5 | 4.5 | 4.5 | 8.0 | 15.0 | 4.5 | 4.5 | 11.0 | 16.0 | 8.0 | 6.0 | 10.0 | 18.0 | 7.0 | 6.0 | 13.0 | 18.0 | 8.5 | 7.0 |
| 0.015 | 7.0 | 12.5 | 4.5 | 4.5 | 8.5 | 13.0 | 5.0 | 5.0 | 8.5 | 15.0 | 5.5 | 6.0 | 13.0 | 16.0 | 8.0 | 7.0 | 13.0 | 18.0 | 8.5 | 7.0 | | | | |
| 0.022 | 8.0 | 14.0 | 4.5 | 5.5 | 9.5 | 15.0 | 5.5 | 7.5 | 9.5 | 15.0 | 5.5 | 6.5 | 14.5 | 17.0 | 9.5 | 7.5 | 14.5 | 18.0 | 8.5 | 8.0 | | | | |
| 0.027 | 9.0 | 14.0 | 4.5 | 5.5 | 9.5 | 15.0 | 5.5 | 7.5 | 9.5 | 15.0 | 5.5 | 6.5 | 14.5 | 22.0 | 9.5 | 8.0 | | | | | | | | |
| 0.033 | 9.0 | 14.0 | 6.0 | 6.5 | 12.0 | 15.0 | 6.5 | 7.5 | 11.0 | 15.0 | 6.5 | 6.5 | 16.0 | 22.0 | 10.0 | 8.0 | | | | | | | | |
| 0.039 | 10.5 | 14.0 | 6.0 | 6.5 | 12.0 | 15.0 | 6.5 | 7.5 | 12.0 | 16.0 | 6.5 | 8.0 | 16.0 | 22.0 | 10.0 | 8.5 | | | | | | | | |
| 0.047 | 10.5 | 14.0 | 7.0 | 7.5 | 12.0 | 15.0 | 6.5 | 8.5 | 12.0 | 16.0 | 6.5 | 8.0 | 16.0 | 22.0 | 10.0 | 10.0 | | | | | | | | |
| 0.056 | 11.5 | 14.0 | 7.0 | 7.5 | 13.0 | 16.0 | 7.5 | 8.5 | 12.0 | 18.5 | 7.5 | 8.0 | | | | | | | | | | | | |
| 0.068 | 11.5 | 14.0 | 7.0 | 7.5 | 13.0 | 16.0 | 7.5 | 9.0 | 14.0 | 18.5 | 7.5 | 8.0 | | | | | | | | | | | | |
| 0.082 | 12.5 | 15.0 | 7.5 | 7.5 | 13.0 | 18.5 | 9.0 | 10.0 | 14.0 | 18.5 | 9.0 | 10 | | | | | | | | | | | | |
| 0.1 | 12.5 | 16.0 | 7.5 | 8.0 | 14.0 | 20.0 | 9.0 | 10.0 | 15.0 | 20.0 | 9.0 | 10 | | | | | | | | | | | | |