

# Minibox Metallized Polyester Film Capacitors



**EPEM Series**  
(5mm Lead Space)

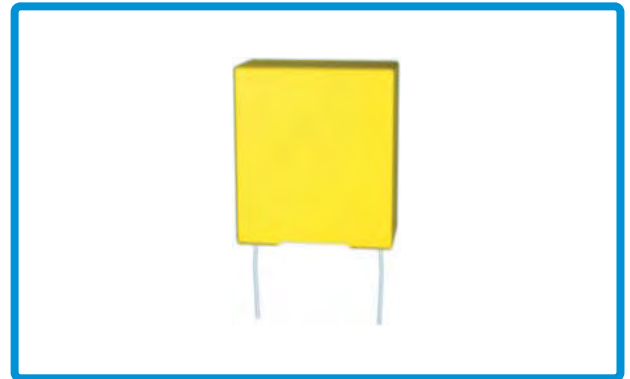
**MERITEK**

## FEATURES

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

## SPECIFICATIONS

1. Operating temperature: -40°C to +85 °C
2. Capacitance range: 0.001μF to 1.5μF
3. Capacitance tolerance: ±5%(J), ±10%(K), ±20%(M)
4. Rated voltage: 63VDC/50VAC, 100VDC/63VAC
5. Dissipation factor: ≤ 0.8% at 1 KHz and 20°C
6. Insulation resistance: ≥ 9000MΩ for C ≤ 0.33μF  
≥ 3000MΩ • μF for C > 0.33μF

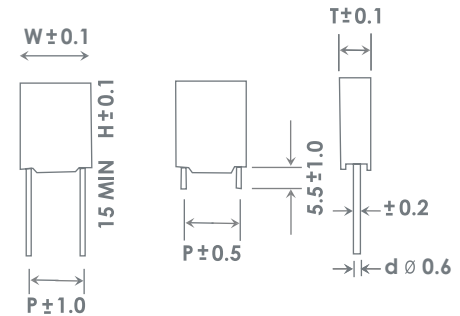


**EPEM** are constructed with a wound polyethylene terephthalate film dielectric, housed inside a plastic casing, which is sealed using epoxy resin. The leads are constructed with oxygen-free tinned copper wires. EPEM possess self-healing properties and are small in size. They are ideal for automatic insertion.

## PART NUMBERING SYSTEM

|                |             |            |          |           |
|----------------|-------------|------------|----------|-----------|
| Meritek Series | <b>EPEM</b> | <b>103</b> | <b>J</b> | <b>2A</b> |
| Capacitance    |             |            |          |           |
| CODE           | 102         | 103        | 104      | 105       |
| (pF)           | 1,000       | 10,000     | 100,000  |           |
| (nF)           | 1           | 10         | 100      | 1000      |
| (μF)           | 0.001       | 0.01       | 0.1      | 1         |
| Tolerance      |             |            |          |           |
| CODE           | J           | K          | M        |           |
| Tolerance (%)  | ± 5         | ± 10       | ± 20     |           |
| Rated Voltage  |             |            |          |           |
| CODE           | 1J          | 2A         |          |           |
|                | 63VDC       | 100VDC     |          |           |

Tape & Reel / Tape & Ammo available  
Please contact factory for part number



Dimensions in millimeters (mm)

| RV<br>DIM.<br>CAP(μF) | 63VDC/ 50VAC |     |     |     | 100VDC/ 63VAC |     |     |     |
|-----------------------|--------------|-----|-----|-----|---------------|-----|-----|-----|
|                       | W            | H   | T   | P   | W             | H   | T   | P   |
| 0.0010                | 7.6          | 6.5 | 2.5 | 5.0 | 7.6           | 6.5 | 2.5 | 5.0 |
| 0.0012                | 7.6          | 6.5 | 2.5 | 5.0 | 7.6           | 6.5 | 2.5 | 5.0 |
| 0.0015                | 7.6          | 6.5 | 2.5 | 5.0 | 7.6           | 6.5 | 2.5 | 5.0 |
| 0.0018                | 7.6          | 6.5 | 2.5 | 5.0 | 7.6           | 6.5 | 2.5 | 5.0 |
| 0.0022                | 7.6          | 6.5 | 2.5 | 5.0 | 7.6           | 6.5 | 2.5 | 5.0 |
| 0.0027                | 7.6          | 6.5 | 2.5 | 5.0 | 7.6           | 6.5 | 2.5 | 5.0 |
| 0.0033                | 7.6          | 6.5 | 2.5 | 5.0 | 7.6           | 6.5 | 2.5 | 5.0 |
| 0.0039                | 7.6          | 6.5 | 2.5 | 5.0 | 7.6           | 6.5 | 2.5 | 5.0 |
| 0.0047                | 7.6          | 6.5 | 2.5 | 5.0 | 7.6           | 6.5 | 2.5 | 5.0 |
| 0.0056                | 7.6          | 6.5 | 2.5 | 5.0 | 7.6           | 6.5 | 2.5 | 5.0 |
| 0.0068                | 7.6          | 6.5 | 2.5 | 5.0 | 7.6           | 6.5 | 2.5 | 5.0 |
| 0.0082                | 7.6          | 6.5 | 2.5 | 5.0 | 7.6           | 6.5 | 2.5 | 5.0 |
| 0.010                 | 7.6          | 6.5 | 2.5 | 5.0 | 7.6           | 6.5 | 2.5 | 5.0 |
| 0.012                 | 7.6          | 6.5 | 2.5 | 5.0 | 7.6           | 6.5 | 2.5 | 5.0 |
| 0.015                 | 7.6          | 6.5 | 2.5 | 5.0 | 7.6           | 6.5 | 2.5 | 5.0 |
| 0.018                 | 7.6          | 6.5 | 2.5 | 5.0 | 7.6           | 6.5 | 2.5 | 5.0 |
| 0.022                 | 7.6          | 6.5 | 2.5 | 5.0 | 7.6           | 6.5 | 2.5 | 5.0 |

| Dimensions in millimeters (mm) |              |         |         |     |               |          |         |     |
|--------------------------------|--------------|---------|---------|-----|---------------|----------|---------|-----|
| RV                             | 63VDC/ 50VAC |         |         |     | 100VDC/ 63VAC |          |         |     |
| DIM.                           | W            | H       | T       | P   | W             | H        | T       | P   |
| CAP(μF)                        |              |         |         |     |               |          |         |     |
| 0.027                          | 7.6          | 6.5     | 2.5     | 5.0 | 7.6           | 6.5      | 2.5     | 5.0 |
| 0.033                          | 7.6          | 6.5     | 2.5     | 5.0 | 7.6           | 6.5      | 2.5     | 5.0 |
| 0.039                          | 7.6          | 6.5     | 2.5     | 5.0 | 7.6           | 6.5      | 2.5     | 5.0 |
| 0.047                          | 7.6          | 6.5     | 2.5     | 5.0 | 7.6           | 6.5      | 2.5     | 5.0 |
| 0.056                          | 7.6          | 6.5     | 2.5     | 5.0 | 7.6           | 6.5      | 2.5     | 5.0 |
| 0.068                          | 7.6          | 6.5     | 2.5     | 5.0 | 7.6           | 6.5      | 2.5     | 5.0 |
| 0.082                          | 7.6          | 6.5     | 2.5     | 5.0 | 7.6           | 6.5      | 2.5     | 5.0 |
| 0.10                           | 7.6          | 6.5     | 2.5     | 5.0 | 7.6           | 6.5      | 2.5     | 5.0 |
| 0.12                           | 7.6          | 6.5/8.0 | 2.5/3.2 | 5.0 | 7.6           | 6.5/8.0  | 2.5/3.2 | 5.0 |
| 0.15                           | 7.6          | 6.5/8.0 | 2.5/3.2 | 5.0 | 7.6           | 6.5/8.0  | 2.5/3.2 | 5.0 |
| 0.18                           | 7.6          | 6.5/8.0 | 2.5/3.2 | 5.0 | 7.6           | 8.0      | 5.0     | 5.0 |
| 0.22                           | 7.6          | 6.5/8.0 | 2.5/3.2 | 5.0 | 7.6           | 8.0      | 5.0     | 5.0 |
| 0.27                           | 7.6          | 8.0     | 3.2/5.0 | 5.0 | 7.6           | 8.0      | 5.0     | 5.0 |
| 0.33                           | 7.6          | 8.0     | 3.2/5.0 | 5.0 | 7.6           | 8.0      | 5.0     | 5.0 |
| 0.39                           | 7.6          | 8.0     | 5.0     | 5.0 | 7.6           | 8.0/12.0 | 5.0/6.0 | 5.0 |
| 0.47                           | 7.6          | 8.0     | 5.0     | 5.0 | 7.6           | 9.6/12.0 | 6.0     | 5.0 |
| 0.56                           | 7.6          | 8.0     | 5.0     | 5.0 | 7.6           | 9.6/12.0 | 6.0     | 5.0 |
| 0.68                           | 7.6          | 8.0/9.6 | 5.0/6.0 | 5.0 | 7.6           | 9.6/12.0 | 6.0     | 5.0 |
| 0.82                           | 7.6          | 8.0/9.6 | 5.0/6.0 | 5.0 | 7.6           | 12.0     | 6.0     | 5.0 |
| 1.0                            | 7.6          | 8.0/9.6 | 5.0/6.0 | 5.0 | 7.6           | 12.0     | 6.0     | 5.0 |

Custom values and tolerances available upon request