

# Metallized Polyester Film Capacitor Epoxy Coated

DMPE Series

**MERITEK**

## FEATURES

- Operating temperature: -40°C ~ +105°C
- Non-Inductive Wound Construction
- Low Loss at High Frequency
- Small Inherent Temperature Rise
- Flame Retardant Epoxy Resin Coating UL V-0



## PART NUMBERING SYSTEM

DMPE 103 J 2A 75  
(1) (2) (3) (4) (5)



| No  | item           | Code | Description                         | Series Reference                                |
|-----|----------------|------|-------------------------------------|---|
| (1) | Meritek Series | DMPE | Metallized Polyester Film Capacitor | Epoxy Coated Type                               |
| (2) | Capacitance    | 103  | 103: 0.01 $\mu$ F                   | First two digit: Significant, Third: Multiplier |
| (3) | Tolerance      | J    | J: $\pm$ 5%                         | -5% ~ +5%                                       |
| (4) | Rated Voltage  | 2A   | 2A: 100VDC                          | DC Voltage Code                                 |
| (5) | Internal Code  | 75   | 75: 7.5mm Pitch                     | Internal Control or Project Reference           |

## ELECTRICAL CHARACTERISTICS

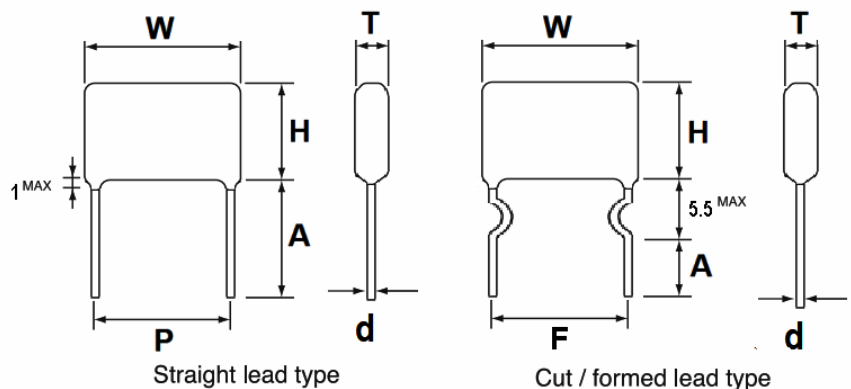
| Item  | Description  |
|---|--|
| Capacitance Range                           | 0.0010 ~ 3.3 $\mu$ F   |
| Capacitance Tolerance                       | $\pm$ 5%(J), $\pm$ 10%(K), $\pm$ 20%(M)  |
| Rated Voltage                               | 63(1J), 100(2A), 250(2E), 400(2G), 630(2J), 1000(3A) VDC   |
| Operating Temperature Range                 | -40°C~+105°C<br>Derating ratio of rated voltage to +85 ~ +105°C : 1.25% per °C for rated voltage |
| Dissipation Factor (tan $\delta$ )          | $\leq$ 0.1% at +25°C, 1KHz   |
| Insulation Resistance-<br>Between Terminals | C $\leq$ 0.33 $\mu$ F $\geq$ 15,000M $\Omega$  |
|   | C > 0.33 $\mu$ F $\geq$ 5,000S   |
| Withstand Voltage- Between Terminals        | 1.5 x Rated Voltage for 60 sec.  |

## DIMENSION

| P (mm) | d (mm) |
|--------|--------|
| 7.5    | 0.6    |
| 10.0   | 0.6    |
| 15.0   | 0.8    |
| 20.0   | 0.8    |
| 22.5   | 0.8    |
| 25.0   | 0.8    |
| 30.0   | 0.8    |

Note:

1. WxHxT (mm) See the table below
2. Standard lead length A: 15mm min.
3. Contact Meritek for other available options for lead forming (F)



# Metallized Polyester Film Capacitor Epoxy Coated

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## DIMENSION

| 63VDC (40VAC) |       |      |      |      |      |     | 100VDC (63VAC) |       |      |      |      |      |     |
|---------------|-------|------|------|------|------|-----|----------------|-------|------|------|------|------|-----|
| Cap(μF)       | %     | W    | H    | T    | P    | d   | Cap(μF)        | %     | W    | H    | T    | P    | d   |
| 0.010         | J,K,M | 10.0 | 9.0  | 5.5  | 7.5  | 0.6 | 0.010          | J,K,M | 10.0 | 9.0  | 5.5  | 7.5  | 0.6 |
| 0.015         | J,K,M | 10.0 | 9.5  | 6.0  | 7.5  | 0.6 | 0.015          | J,K,M | 10.0 | 9.5  | 6.0  | 7.5  | 0.6 |
| 0.022         | J,K,M | 10.0 | 9.0  | 5.5  | 7.5  | 0.6 | 0.022          | J,K,M | 10.0 | 9.0  | 5.5  | 7.5  | 0.6 |
| 0.027         | J,K,M | 10.0 | 9.5  | 6.0  | 7.5  | 0.6 | 0.027          | J,K,M | 10.0 | 9.5  | 6.0  | 7.5  | 0.6 |
| 0.033         | J,K,M | 10.0 | 8.5  | 5.0  | 7.5  | 0.6 | 0.033          | J,K,M | 10.0 | 8.5  | 5.0  | 7.5  | 0.6 |
| 0.039         | J,K,M | 10.0 | 9.0  | 5.0  | 7.5  | 0.6 | 0.039          | J,K,M | 10.0 | 9.0  | 5.0  | 7.5  | 0.6 |
| 0.047         | J,K,M | 10.0 | 9.0  | 5.5  | 7.5  | 0.6 | 0.047          | J,K,M | 10.0 | 9.0  | 5.5  | 7.5  | 0.6 |
| 0.056         | J,K,M | 10.0 | 9.5  | 6.0  | 7.5  | 0.6 | 0.056          | J,K,M | 10.0 | 9.5  | 6.0  | 7.5  | 0.6 |
| 0.068         | J,K,M | 10.0 | 9.0  | 5.5  | 7.5  | 0.6 | 0.068          | J,K,M | 10.0 | 9.0  | 5.5  | 7.5  | 0.6 |
| 0.082         | J,K,M | 10.0 | 9.5  | 6.0  | 7.5  | 0.6 | 0.082          | J,K,M | 10.0 | 9.5  | 6.0  | 7.5  | 0.6 |
| 0.10          | J,K,M | 10.0 | 8.5  | 5.0  | 7.5  | 0.6 | 0.10           | J,K,M | 10.0 | 8.5  | 5.0  | 7.5  | 0.6 |
| 0.15          | J,K,M | 10.0 | 8.5  | 5.0  | 7.5  | 0.6 | 0.15           | J,K,M | 10.0 | 8.5  | 5.0  | 7.5  | 0.6 |
| 0.22          | J,K,M | 10.0 | 9.5  | 5.5  | 7.5  | 0.6 | 0.22           | J,K,M | 10.0 | 9.5  | 5.5  | 7.5  | 0.6 |
| 0.27          | J,K,M | 10.0 | 10.0 | 6.5  | 7.5  | 0.6 | 0.27           | J,K,M | 10.0 | 10.0 | 6.5  | 7.5  | 0.6 |
| 0.33          | J,K,M | 13.0 | 10.5 | 6.0  | 10.0 | 0.6 | 0.33           | J,K,M | 13.0 | 10.5 | 6.0  | 10.0 | 0.6 |
| 0.39          | J,K,M | 13.0 | 11.0 | 6.0  | 10.0 | 0.6 | 0.39           | J,K,M | 13.0 | 11.0 | 6.0  | 10.0 | 0.6 |
| 0.47          | J,K,M | 13.0 | 11.5 | 6.5  | 10.0 | 0.6 | 0.47           | J,K,M | 13.0 | 11.5 | 6.5  | 10.0 | 0.6 |
| 0.56          | J,K,M | 13.0 | 12.0 | 7.0  | 10.0 | 0.6 | 0.56           | J,K,M | 13.0 | 12.0 | 7.0  | 10.0 | 0.6 |
| 0.68          | J,K,M | 18.0 | 11.5 | 6.0  | 15.0 | 0.8 | 0.68           | J,K,M | 18.0 | 11.5 | 6.0  | 15.0 | 0.8 |
| 0.82          | J,K,M | 18.0 | 12.5 | 6.5  | 15.0 | 0.8 | 0.82           | J,K,M | 18.0 | 12.5 | 6.5  | 15.0 | 0.8 |
| 1.0           | J,K,M | 18.0 | 12.5 | 7.0  | 15.0 | 0.8 | 1.0            | J,K,M | 18.0 | 12.5 | 7.0  | 15.0 | 0.8 |
| 1.5           | J,K,M | 18.0 | 14.0 | 8.5  | 15.0 | 0.8 | 1.5            | J,K,M | 18.0 | 14.0 | 8.5  | 15.0 | 0.8 |
| 1.8           | J,K,M | 18.0 | 14.5 | 9.0  | 15.0 | 0.8 | 1.8            | J,K,M | 18.0 | 14.5 | 9.0  | 15.0 | 0.8 |
| 2.2           | J,K,M | 24.0 | 14.5 | 8.5  | 20.0 | 0.8 | 2.2            | J,K,M | 24.0 | 14.5 | 8.5  | 20.0 | 0.8 |
| 2.7           | J,K,M | 24.0 | 15.0 | 8.5  | 20.0 | 0.8 | 2.7            | J,K,M | 24.0 | 15.0 | 8.5  | 20.0 | 0.8 |
| 3.3           | J,K,M | 24.0 | 16.0 | 9.5  | 20.0 | 0.8 | 3.3            | J,K,M | 24.0 | 16.0 | 9.5  | 20.0 | 0.8 |
| 4.7           | J,K,M | 29.0 | 17.0 | 10.0 | 25.0 | 0.8 | 4.7            | J,K,M | 29.0 | 17.0 | 10.0 | 25.0 | 0.8 |
| 5.6           | J,K,M | 29.0 | 17.5 | 10.5 | 25.0 | 0.8 | 5.6            | J,K,M | 29.0 | 17.5 | 10.5 | 25.0 | 0.8 |
| 6.8           | J,K,M | 29.0 | 18.5 | 11.5 | 25.0 | 0.8 | 6.8            | J,K,M | 29.0 | 18.5 | 11.5 | 25.0 | 0.8 |
| 8.2           | J,K,M | 29.0 | 19.5 | 12.5 | 25.0 | 0.8 | 8.2            | J,K,M | 29.0 | 19.5 | 12.5 | 25.0 | 0.8 |
| 10.0          | J,K,M | 29.0 | 21.0 | 14.0 | 25.0 | 0.8 | 10.0           | J,K,M | 29.0 | 21.0 | 14.0 | 25.0 | 0.8 |

Unit: mm

# Metallized Polyester Film Capacitor Epoxy Coated

DMPE Series

**MERITEK**

## DIMENSION

| 250VDC (160VAC) |       |      |      |      |      |     | 400VDC (200VAC) |       |      |      |      |      |     |
|-----------------|-------|------|------|------|------|-----|-----------------|-------|------|------|------|------|-----|
| Cap(μF)         | %     | W    | H    | T    | P    | d   | Cap(μF)         | %     | W    | H    | T    | P    | d   |
| 0.010           | J,K,M | 10.0 | 9.0  | 5.5  | 7.5  | 0.6 | 0.010           | J,K,M | 10.0 | 9.0  | 5.5  | 7.5  | 0.6 |
| 0.015           | J,K,M | 10.0 | 9.5  | 6.0  | 7.5  | 0.6 | 0.015           | J,K,M | 10.0 | 9.5  | 6.0  | 7.5  | 0.6 |
| 0.022           | J,K,M | 10.0 | 9.5  | 5.5  | 7.5  | 0.6 | 0.018           | J,K,M | 10.0 | 10.0 | 6.0  | 7.5  | 0.6 |
| 0.027           | J,K,M | 10.0 | 9.5  | 6.0  | 7.5  | 0.6 | 0.022           | J,K,M | 10.0 | 9.5  | 5.5  | 7.5  | 0.6 |
| 0.033           | J,K,M | 10.0 | 8.5  | 5.5  | 7.5  | 0.6 | 0.027           | J,K,M | 10.0 | 9.5  | 6.0  | 7.5  | 0.6 |
| 0.039           | J,K,M | 10.0 | 9.0  | 5.0  | 7.5  | 0.6 | 0.033           | J,K,M | 10.0 | 10.0 | 6.0  | 7.5  | 0.6 |
| 0.047           | J,K,M | 10.0 | 9.0  | 5.5  | 7.5  | 0.6 | 0.039           | J,K,M | 10.0 | 10.5 | 6.5  | 7.5  | 0.6 |
| 0.056           | J,K,M | 10.0 | 9.5  | 6.0  | 7.5  | 0.6 | 0.047           | J,K,M | 10.0 | 10.5 | 7.0  | 7.5  | 0.6 |
| 0.068           | J,K,M | 10.0 | 9.0  | 5.5  | 7.5  | 0.6 | 0.056           | J,K,M | 13.0 | 10.5 | 6.0  | 10.0 | 0.6 |
| 0.082           | J,K,M | 10.0 | 9.5  | 6.0  | 7.5  | 0.6 | 0.068           | J,K,M | 13.0 | 11.0 | 6.5  | 10.0 | 0.6 |
| 0.10            | J,K,M | 10.0 | 10.0 | 6.0  | 7.5  | 0.6 | 0.082           | J,K,M | 13.0 | 11.5 | 7.0  | 10.0 | 0.6 |
| 0.15            | J,K,M | 10.0 | 10.5 | 6.5  | 7.5  | 0.6 | 0.10            | J,K,M | 13.0 | 12.0 | 7.0  | 10.0 | 0.6 |
| 0.22            | J,K,M | 13.0 | 11.0 | 6.5  | 10.0 | 0.6 | 0.12            | J,K,M | 13.0 | 12.5 | 8.0  | 10.0 | 0.6 |
| 0.27            | J,K,M | 13.0 | 11.5 | 7.0  | 10.0 | 0.6 | 0.15            | J,K,M | 18.0 | 11.5 | 7.0  | 15.0 | 0.8 |
| 0.33            | J,K,M | 13.0 | 12.5 | 7.0  | 10.0 | 0.6 | 0.18            | J,K,M | 18.0 | 12.0 | 7.5  | 15.0 | 0.8 |
| 0.39            | J,K,M | 18.0 | 11.5 | 6.0  | 15.0 | 0.8 | 0.22            | J,K,M | 18.0 | 13.0 | 8.0  | 15.0 | 0.8 |
| 0.47            | J,K,M | 18.0 | 12.0 | 6.5  | 15.0 | 0.8 | 0.27            | J,K,M | 18.0 | 13.5 | 9.0  | 15.0 | 0.8 |
| 0.56            | J,K,M | 18.0 | 12.0 | 7.0  | 15.0 | 0.8 | 0.33            | J,K,M | 18.0 | 14.5 | 9.5  | 15.0 | 0.8 |
| 0.68            | J,K,M | 18.0 | 13.0 | 7.5  | 15.0 | 0.8 | 0.39            | J,K,M | 18.0 | 15.5 | 9.5  | 15.0 | 0.8 |
| 0.82            | J,K,M | 18.0 | 13.5 | 8.5  | 15.0 | 0.8 | 0.47            | J,K,M | 18.0 | 16.0 | 10.5 | 15.0 | 0.8 |
| 1.0             | J,K,M | 18.0 | 14.0 | 9.0  | 15.0 | 0.8 | 0.56            | J,K,M | 24.0 | 15.0 | 9.5  | 20.0 | 0.8 |
| 1.5             | J,K,M | 24.0 | 14.0 | 9.0  | 20.0 | 0.8 | 0.68            | J,K,M | 24.0 | 16.0 | 10.5 | 20.0 | 0.8 |
| 1.8             | J,K,M | 24.0 | 16.0 | 9.5  | 20.0 | 0.8 | 0.82            | J,K,M | 24.0 | 17.0 | 11.5 | 20.0 | 0.8 |
| 2.2             | J,K,M | 24.0 | 17.0 | 10.0 | 20.0 | 0.8 | 1.0             | J,K,M | 29.0 | 17.0 | 10.5 | 25.0 | 0.8 |
| 2.7             | J,K,M | 24.0 | 18.0 | 11.5 | 20   | 0.8 | 1.2             | J,K,M | 29.0 | 18.0 | 11.5 | 25.0 | 0.8 |
| 3.3             | J,K,M | 29.0 | 18.0 | 11.5 | 25   | 0.8 | 1.5             | J,K,M | 29.0 | 19.5 | 12.5 | 25.0 | 0.8 |
| 4.7             | J,K,M | 29.0 | 20.0 | 13.0 | 25   | 0.8 | 1.8             | J,K,M | 34.0 | 21.0 | 12.0 | 30.0 | 0.8 |
| 5.6             | J,K,M | 29.0 | 19.5 | 12.5 | 25   | 0.8 | 2.2             | J,K,M | 34.0 | 21.5 | 13.5 | 30.0 | 0.8 |
| 6.8             | J,K,M | 34.0 | 21.5 | 13.5 | 30   | 0.8 | 2.7             | J,K,M | 34.0 | 23.0 | 14.5 | 30.0 | 0.8 |
| 8.2             | J,K,M | 34.0 | 23.0 | 14.5 | 30   | 0.8 | 3.3             | J,K,M | 34.0 | 24.5 | 16.5 | 30.0 | 0.8 |
| 10.0            | J,K,M | 34.0 | 24.5 | 16.0 | 30   | 0.8 | 4.7             | J,K,M | 34.0 | 28.0 | 19.5 | 30.0 | 0.8 |

Unit: mm

# Metallized Polyester Film Capacitor Epoxy Coated

DMPE Series

**MERITEK**

## DIMENSION

| 630VDC (220VAC) |       |      |      |      |      |     |
|-----------------|-------|------|------|------|------|-----|
| Cap( $\mu$ F)   | %     | W    | H    | T    | P    | d   |
| 0.010           | J,K,M | 13.0 | 9.0  | 5.0  | 10.0 | 0.6 |
| 0.015           | J,K,M | 13.0 | 9.5  | 5.5  | 10.0 | 0.6 |
| 0.018           | J,K,M | 13.0 | 10.0 | 6.0  | 10.0 | 0.6 |
| 0.022           | J,K,M | 13.0 | 10.0 | 6.0  | 10.0 | 0.6 |
| 0.027           | J,K,M | 13.0 | 10.5 | 6.5  | 10.0 | 0.6 |
| 0.033           | J,K,M | 13.0 | 11.0 | 7.0  | 10.0 | 0.6 |
| 0.039           | J,K,M | 13.0 | 11.5 | 7.0  | 10.0 | 0.6 |
| 0.047           | J,K,M | 13.0 | 12.5 | 8.0  | 10.0 | 0.6 |
| 0.056           | J,K,M | 13.0 | 13.0 | 8.5  | 10.0 | 0.6 |
| 0.068           | J,K,M | 18.0 | 12.0 | 7.5  | 15.0 | 0.8 |
| 0.10            | J,K,M | 18.0 | 13.0 | 8.0  | 15.0 | 0.8 |
| 0.12            | J,K,M | 18.0 | 13.5 | 9.0  | 15.0 | 0.8 |
| 0.15            | J,K,M | 18.0 | 14.0 | 9.5  | 15.0 | 0.8 |
| 0.18            | J,K,M | 18.0 | 15.0 | 10.0 | 15.0 | 0.8 |
| 0.22            | J,K,M | 18.0 | 16.0 | 11.0 | 15.0 | 0.8 |
| 0.27            | J,K,M | 24.0 | 16.0 | 9.5  | 20.0 | 0.8 |
| 0.33            | J,K,M | 24.0 | 17.0 | 10.0 | 20.0 | 0.8 |
| 0.39            | J,K,M | 24.0 | 18.0 | 11.0 | 20.0 | 0.8 |
| 0.47            | J,K,M | 29.0 | 18.0 | 10.0 | 25.0 | 0.8 |
| 0.56            | J,K,M | 29.0 | 19.0 | 10.5 | 25.0 | 0.8 |
| 0.68            | J,K,M | 29.0 | 20.0 | 12.0 | 25.0 | 0.8 |
| 0.82            | J,K,M | 29.0 | 21.5 | 13.0 | 25.0 | 0.8 |
| 1.0             | J,K,M | 34.0 | 21.5 | 13.0 | 30.0 | 0.8 |
| 1.2             | J,K,M | 34.0 | 22.5 | 14.5 | 30.0 | 0.8 |
| 1.5             | J,K,M | 34.0 | 24.0 | 15.5 | 30.0 | 0.8 |
| 1.8             | J,K,M | 34.0 | 26.0 | 17.5 | 30.0 | 0.8 |
| 2.2             | J,K,M | 34.0 | 27.5 | 19.5 | 30.0 | 0.8 |

Unit: mm

\*Specifications subject to change without notice.