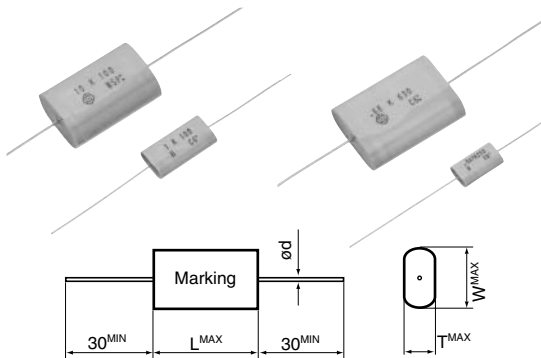


MTBS, MTB Series (Tape Wrapped Metallized Polyester Film Capacitors)

This series offers metallized film capacitors that have axial leads and exhibit excellent heat resistance and moisture resistance. These capacitors employ a metallized polyester film dielectric and have a polyester-taped outer covering and resin-sealed ends.

Outline of drawings and dimensions



Product symbol : (Example) MTB Series 630V.DC 0.1μF ±10%

MTB-2J-104 K

Type of series: MTB
 Capacitance tolerance code: 2
 Capacitance code: J
 Rated voltage code: 104
 K: Capacitance tolerance code

Product symbol : (Example) MTBS Series 100V.DC 1.0μF ±10%

MTBS-2A-105 K

Type of series: MTBS
 Specify as MTBS when ordering 100V DC items

Product Specifications

| Items | Specifications |
|-------------------------------|--|
| Temperature range | -40°C ~ +85°C |
| Rated voltage | 100 ~ 630 V.DC |
| Capacitance tolerance | ±5% (J), ±10% (K), ±20% (M) |
| Withstanding voltage | Rated voltage (V.DC) × 1.4 for one min. |
| Dielectric dissipation factor | 0.8% or less (20°C, 1KHz) |
| Insulation resistance | $C_r \leq 0.33\mu\text{F}$ 7,500MΩ or more $C_r > 0.33\mu\text{F}$ 2,500 / C_r MΩ or more |
| Related standard | Subject to JIS C 5101-1 and JIS C 5101-2. |

C_r : Capacitance (μF)

Standard value and case size

(Unit : mm)

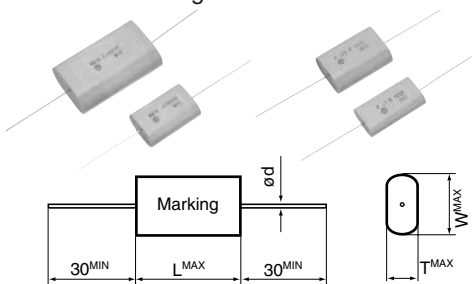
| Capacitance | MTBS | | | | MTB | | | | | | | | | | | | |
|-------------|------|------|--------------|------|----------------------|------|------|------|--------------|------|------|------|-------------|------|------|------|-----|
| | | | | | Rated voltage (Code) | | | | | | | | | | | | |
| | μF | Code | 100V.DC (2A) | | 250V.DC (2E) | | | | 400V.DC (2G) | | | | 630V.DC(2J) | | | | |
| | | T | W | L | d | T | W | L | d | T | W | L | d | T | W | L | d |
| 0.022 | 223 | | | | | | | | | 4.0 | 7.0 | 14.0 | 0.6 | 4.5 | 9.0 | 16.0 | 0.6 |
| 0.033 | 333 | | | | | | | | | 4.0 | 7.5 | 16.0 | 0.6 | 5.5 | 9.0 | 16.0 | 0.6 |
| 0.047 | 473 | | | | | 4.0 | 7.5 | 14.0 | 0.6 | 5.0 | 8.5 | 16.0 | 0.6 | 4.5 | 9.5 | 22.0 | 0.6 |
| 0.068 | 683 | | | | | 4.0 | 7.5 | 16.0 | 0.6 | 6.0 | 9.5 | 16.0 | 0.6 | 5.5 | 10.5 | 22.0 | 0.6 |
| 0.10 | 104 | | | | | 4.5 | 9.0 | 16.0 | 0.6 | 5.0 | 10.0 | 22.0 | 0.6 | 6.5 | 13.0 | 22.0 | 0.6 |
| 0.12 | 124 | | | | | 5.0 | 9.5 | 16.0 | 0.6 | 5.5 | 10.5 | 22.0 | 0.6 | 7.0 | 13.5 | 22.0 | 0.6 |
| 0.15 | 154 | | | | | 5.5 | 10.5 | 16.0 | 0.6 | 6.5 | 11.0 | 22.0 | 0.6 | 6.5 | 11.5 | 29.0 | 0.8 |
| 0.18 | 184 | | | | | 6.0 | 11.0 | 16.0 | 0.6 | 6.5 | 12.5 | 22.0 | 0.6 | 6.5 | 13.0 | 29.0 | 0.8 |
| 0.22 | 224 | | | | | 5.0 | 10.0 | 22.0 | 0.6 | 7.0 | 13.5 | 22.0 | 0.6 | 7.5 | 14.0 | 29.0 | 0.8 |
| 0.27 | 274 | 4.0 | 8.0 | 14.0 | 0.6 | 5.5 | 10.5 | 22.0 | 0.6 | 8.0 | 14.5 | 22.0 | 0.6 | 7.5 | 17.0 | 29.0 | 0.8 |
| 0.33 | 334 | 4.5 | 8.5 | 14.0 | 0.6 | 6.0 | 11.0 | 22.0 | 0.6 | 7.0 | 13.5 | 29.0 | 0.8 | 8.0 | 17.5 | 31.0 | 0.8 |
| 0.39 | 394 | 5.0 | 9.0 | 14.0 | 0.6 | 7.0 | 11.5 | 22.0 | 0.6 | 7.5 | 14.0 | 29.0 | 0.8 | 9.0 | 18.5 | 31.0 | 0.8 |
| 0.47 | 474 | 5.5 | 9.5 | 14.0 | 0.6 | 7.5 | 12.5 | 22.0 | 0.6 | 8.5 | 14.5 | 29.0 | 0.8 | 9.5 | 19.0 | 31.0 | 0.8 |
| 0.56 | 564 | 4.5 | 9.5 | 20.0 | 0.6 | 6.0 | 12.0 | 29.0 | 0.8 | 8.0 | 17.5 | 29.0 | 0.8 | 11.0 | 20.5 | 31.0 | 0.8 |
| 0.68 | 684 | 5.0 | 9.5 | 20.0 | 0.6 | 6.5 | 13.0 | 29.0 | 0.8 | 9.0 | 18.5 | 29.0 | 0.8 | 11.0 | 23.5 | 31.0 | 0.8 |
| 0.82 | 824 | 5.0 | 10.0 | 20.0 | 0.6 | 7.0 | 13.5 | 29.0 | 0.8 | 10.0 | 19.5 | 29.0 | 0.8 | 12.5 | 25.0 | 31.0 | 0.8 |
| 1.0 | 105 | 6.0 | 10.5 | 20.0 | 0.6 | 7.0 | 16.5 | 29.0 | 0.8 | 11.5 | 21.0 | 29.0 | 0.8 | 14.0 | 26.5 | 31.0 | 0.8 |
| 1.2 | 125 | 6.5 | 11.5 | 20.0 | 0.6 | 8.0 | 17.5 | 29.0 | 0.8 | 12.0 | 21.5 | 31.0 | 0.8 | 12.5 | 25.0 | 43.0 | 1.0 |
| 1.5 | 155 | 7.0 | 12.5 | 20.0 | 0.6 | 9.0 | 18.5 | 29.0 | 0.8 | 14.0 | 23.5 | 31.0 | 0.8 | 14.0 | 26.5 | 43.0 | 1.0 |
| 1.8 | 185 | 7.0 | 12.0 | 22.0 | 0.8 | 10.0 | 19.5 | 29.0 | 0.8 | 12.5 | 22.0 | 43.0 | 1.0 | 15.5 | 28.5 | 43.0 | 1.0 |
| 2.2 | 225 | 7.5 | 13.0 | 22.0 | 0.8 | 11.0 | 21.0 | 29.0 | 0.8 | 14.0 | 24.0 | 43.0 | 1.0 | 15.5 | 28.0 | 52.0 | 1.0 |
| 2.7 | 275 | 8.5 | 14.0 | 22.0 | 0.8 | 9.5 | 19.0 | 43.0 | 1.0 | 14.0 | 24.0 | 43.0 | 1.0 | | | | |
| 3.3 | 335 | 9.0 | 16.0 | 22.0 | 0.8 | 10.5 | 20.5 | 43.0 | 1.0 | 16.0 | 28.5 | 43.0 | 1.0 | | | | |
| 3.9 | 395 | 10.0 | 17.0 | 22.0 | 0.8 | 12.0 | 21.5 | 43.0 | 1.0 | 16.5 | 32.5 | 43.0 | 1.0 | | | | |
| 4.7 | 475 | 11.0 | 17.5 | 22.0 | 0.8 | 13.5 | 23.0 | 43.0 | 1.0 | 15.5 | 31.0 | 52.0 | 1.0 | | | | |
| 5.6 | 565 | 11.0 | 17.5 | 26.0 | 0.8 | 13.0 | 22.5 | 52.0 | 1.0 | | | | | | | | |
| 6.8 | 685 | 12.0 | 18.5 | 26.0 | 0.8 | 14.5 | 24.0 | 52.0 | 1.0 | | | | | | | | |
| 8.2 | 825 | 11.5 | 18.5 | 29.0 | 0.8 | 16.0 | 25.5 | 52.0 | 1.0 | | | | | | | | |
| 10.0 | 106 | 12.5 | 20.5 | 29.0 | 0.8 | 16.5 | 29.5 | 52.0 | 1.0 | | | | | | | | |

PLASTIC FILM CAPACITORS

WMTB, WMTB-P Series (High-frequency Large-current Tape-wrapped Capacitors) (For Snubbers)

The WMTB / WMTB-P series offers tape-wrapped capacitors which are developed for applications where high-frequency current is essential. Being small and lightweight, these capacitors are ideal for use in high-frequency large-current circuits for high-frequency surge suppressors, various inverter circuits, snubber circuits, and the like.

Outline of drawings and dimensions



Product symbol : (Example) WMTB-P Series 1200V.DC 0.1μF ±10%

WMTB-P-1200-104 K

Type of series: WMTB-P
 Capacitance tolerance code: K
 Capacitance code: 104
 Rated voltage code: 1200

WMTB, and WMTB-P Type Product Specifications

| Items | Specifications | |
|-------------------------------|--|--|
| Type of Series | WMTB Type | WMTB-P Type |
| Dielectric | Metallized polyester | Metallized polypropylene |
| Temperature range | -40°C ~ +85°C | -40°C ~ +85°C |
| Rated voltage | 630V.DC | 1,200V.DC |
| Capacitance tolerance | ±10% (K) | ±10% (K) |
| Withstanding voltage | Rated voltage (V.DC) × 1.5 for one min. | Rated voltage (V.DC) × 1.5 for one min. |
| Dielectric dissipation factor | 0.8% or less (20°C, 1KHz) | 0.1% or less (20°C, 1KHz) |
| Insulation resistance | $C_r \leq 0.33\mu\text{F}$ 9,000MΩ or more $C_r > 0.33\mu\text{F}$ 3,000 / C_r MΩ or more | $C_r \leq 0.33\mu\text{F}$ 30,000MΩ or more $C_r > 0.33\mu\text{F}$ 10,000 / C_r MΩ or more |

C_r : Capacitance (μF)

WMTB, and WMTB-P Type Standard value and case size

(Unit : mm)

| Capacitance | Rated voltage | | | | | | | | |
|-------------|---------------------|------|------|------|------------------------|------|------|------|-----|
| | 630V.DC (WMTB Type) | | | | 1200V.DC (WMTB-P Type) | | | | |
| μF | Code | T | W | L | d | T | W | L | d |
| 0.10 | 104 | | | | | 11.0 | 20.0 | 36.0 | 0.8 |
| 0.15 | 154 | | | | | 13.5 | 23.0 | 36.0 | 0.8 |
| 0.22 | 224 | 10.5 | 20.0 | 29.0 | 0.8 | 17.0 | 26.0 | 36.0 | 0.8 |
| 0.33 | 334 | 11.0 | 20.5 | 33.0 | 0.8 | 15.5 | 25.0 | 41.0 | 1.0 |
| 0.47 | 474 | 13.0 | 22.5 | 33.0 | 0.8 | 20.0 | 29.0 | 41.0 | 1.0 |
| 0.68 | 684 | 14.0 | 24.0 | 41.0 | 1.0 | 23.5 | 33.0 | 41.0 | 1.0 |
| 1.0 | 105 | 16.5 | 27.5 | 41.0 | 1.0 | 21.0 | 35.5 | 54.0 | 1.0 |
| 1.5 | 155 | 18.0 | 27.5 | 52.0 | 1.0 | | | | |
| 2.2 | 225 | 21.0 | 33.5 | 52.0 | 1.0 | | | | |