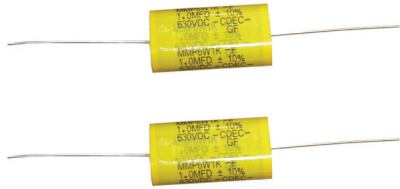


Type MMP Polyester Film Capacitors

Metallized Oval, Axial Leads

Low Profile Circuit Cards



Type MMP axial-leaded, metallized polyester capacitors are ideal when height is at a premium. Non-inductive winding and self-healing capabilities provide stability and long life.

RoHS Compliant

Specifications

Voltage Range: 100 to 630 Vdc

Capacitance Range: .01 to 10 μ F

Capacitance Tolerance: \pm 10% (K) standard
 \pm 5% (J) optional

Operating Temperature Range: -55 °C to 125 °C*

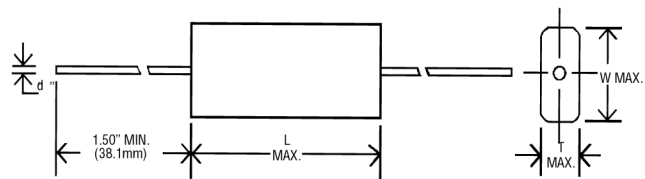
*Full-rated voltage at 85 °C—Derate linearly to 50%-rated voltage at 125 °C

Dielectric Strength: 175% (1 minute)

Dissipation Factor: 1% Max. (25 °C, 1 kHz)

Insulation Resistance: 5,000 M Ω x μ F
10,000 M Ω Min.

Life Test: 1,000 Hours at 85 °C at 125% Rated Voltage



Ratings and Dimensions

| Cap. (μ F) | Catalog Number | T (Inches) | T (mm) | W (Inches) | W (mm) | L (Inches) | L (mm) | d (Inches) | d (mm) | dV/dt (V/ μ s) |
|-----------------|----------------|------------|--------|------------|--------|------------|--------|------------|--------|--------------------|
| 100 Vdc | | | | | | | | | | |
| 0.15 | MMP1P15K-F | 0.197 | (5.0) | 0.354 | (9.0) | 0.670 | (17.0) | 0.024 | (0.6) | 20 |
| 0.22 | MMP1P22K-F | 0.236 | (6.0) | 0.394 | (10.0) | 0.670 | (17.0) | 0.024 | (0.6) | 20 |
| 0.33 | MMP1P33K-F | 0.236 | (6.0) | 0.433 | (11.0) | 0.670 | (17.0) | 0.024 | (0.6) | 20 |
| 0.47 | MMP1P47K-F | 0.236 | (6.0) | 0.394 | (10.0) | 0.906 | (23.0) | 0.024 | (0.6) | 12 |
| 0.68 | MMP1P68K-F | 0.256 | (6.5) | 0.433 | (11.0) | 0.906 | (23.0) | 0.024 | (0.6) | 12 |
| 1.00 | MMP1W1K-F | 0.276 | (7.0) | 0.492 | (12.5) | 0.906 | (23.0) | 0.032 | (0.8) | 12 |
| 1.50 | MMP1W1P5K-F | 0.276 | (7.0) | 0.492 | (12.5) | 1.063 | (27.0) | 0.032 | (0.8) | 8 |
| 2.20 | MMP1W2P2K-F | 0.354 | (9.0) | 0.630 | (16.0) | 1.063 | (27.0) | 0.032 | (0.8) | 8 |
| 3.30 | MMP1W3P3K-F | 0.433 | (11.0) | 0.729 | (18.5) | 1.063 | (27.0) | 0.032 | (0.8) | 8 |
| 4.70 | MMP1W4P7K-F | 0.354 | (9.0) | 0.729 | (18.5) | 1.378 | (35.0) | 0.032 | (0.8) | 6 |
| 6.80 | MMP1W6P8K-F | 0.512 | (13.0) | 0.906 | (23.0) | 1.378 | (35.0) | 0.032 | (0.8) | 6 |
| 10.00 | MMP1W10K-F | 0.630 | (16.0) | 1.044 | (26.5) | 1.378 | (35.0) | 0.032 | (0.8) | 6 |
| 250 Vdc | | | | | | | | | | |
| 0.10 | MMP2P1K-F | 0.217 | (5.5) | 0.335 | (8.5) | 0.670 | (17.0) | 0.024 | (0.6) | 28 |
| 0.15 | MMP2P15K-F | 0.217 | (5.5) | 0.374 | (9.5) | 0.670 | (17.0) | 0.024 | (0.6) | 28 |
| 0.22 | MMP2P22K-F | 0.197 | (5.0) | 0.354 | (9.0) | 0.906 | (23.0) | 0.024 | (0.6) | 17 |
| 0.33 | MMP2P33K-F | 0.217 | (5.5) | 0.414 | (10.5) | 0.906 | (23.0) | 0.024 | (0.6) | 17 |
| 0.47 | MMP2P47K-F | 0.276 | (7.0) | 0.433 | (11.0) | 0.985 | (25.0) | 0.032 | (0.8) | 12 |

Type MMP Polyester Film Capacitors

| Cap. (μ F) | Catalog Number | T Inches (mm) | W Inches (mm) | L Inches (mm) | d Inches (mm) | dV/dt V/ μ s |
|--------------------|-------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 250 Vdc | | | | | | |
| 0.680 | MMP2P68K-F | 0.256 (6.5) | 0.492 (12.5) | 1.103 (28.0) | 0.032 (0.8) | 10 |
| 1.000 | MMP2W1K-F | 0.295 (7.5) | 0.532 (13.5) | 1.103 (28.0) | 0.032 (0.8) | 10 |
| 1.500 | MMP2W1P5K-F | 0.335 (8.5) | 0.591 (15.0) | 1.260 (32.0) | 0.032 (0.8) | 10 |
| 2.200 | MMP2W2P2K-F | 0.394 (10.0) | 0.709 (18.0) | 1.378 (35.0) | 0.032 (0.8) | 8 |
| 3.300 | MMP2W3P3K-F | 0.492 (12.5) | 0.866 (22.0) | 1.457 (37.0) | 0.032 (0.8) | 8 |
| 4.700 | MMP2W4P7K-F | 0.630 (16.0) | 0.985 (25.0) | 1.694 (43.0) | 0.032 (0.8) | 6 |
| 6.800 | MMP2W6P8K-F | 0.748 (19.0) | 1.063 (27.0) | 1.575 (40.0) | 0.032 (0.8) | 8 |
| 10.000 | MMP2W10K-F | 0.630 (16.0) | 1.063 (27.0) | 1.930 (49.0) | 0.032 (0.8) | 6 |
| 400 Vdc | | | | | | |
| 0.022 | MMP4S22K-F | 0.197 (5.0) | 0.354 (9.0) | 0.670 (17.0) | 0.024 (0.6) | 45 |
| 0.033 | MMP4S33K-F | 0.236 (6.0) | 0.394 (10.0) | 0.670 (17.0) | 0.024 (0.6) | 45 |
| 0.047 | MMP4S47K-F | 0.236 (6.0) | 0.394 (10.0) | 0.670 (17.0) | 0.024 (0.6) | 45 |
| 0.068 | MMP4S68K-F | 0.256 (6.5) | 0.394 (10.0) | 0.670 (17.0) | 0.024 (0.6) | 45 |
| 0.100 | MMP4P1K-F | 0.256 (6.5) | 0.433 (11.0) | 0.748 (19.0) | 0.024 (0.6) | 27 |
| 0.150 | MMP4P15K-F | 0.256 (6.5) | 0.453 (11.5) | 0.866 (22.0) | 0.024 (0.6) | 27 |
| 0.220 | MMP4P22K-F | 0.295 (7.5) | 0.532 (13.5) | 0.985 (25.0) | 0.024 (0.6) | 15 |
| 0.330 | MMP4P33K-F | 0.315 (8.0) | 0.571 (14.5) | 1.063 (27.0) | 0.032 (0.8) | 15 |
| 0.470 | MMP4P47K-F | 0.354 (9.0) | 0.610 (15.5) | 1.063 (27.0) | 0.032 (0.8) | 15 |
| 0.680 | MMP4P68K-F | 0.354 (9.0) | 0.630 (16.0) | 1.378 (35.0) | 0.032 (0.8) | 14 |
| 1.000 | MMP4W1K-F | 0.414 (10.5) | 0.729 (18.5) | 1.378 (35.0) | 0.032 (0.8) | 14 |
| 1.500 | MMP4W1P5K-F | 0.492 (12.5) | 0.827 (21.0) | 1.378 (35.0) | 0.032 (0.8) | 14 |
| 2.200 | MMP4W2P2K-F | 0.551 (14.0) | 0.906 (23.0) | 1.575 (40.0) | 0.032 (0.8) | 12 |
| 3.300 | MMP4W3P3K-F | 0.670 (17.0) | 1.024 (26.0) | 1.575 (40.0) | 0.032 (0.8) | 12 |
| 4.700 | MMP4W4P7K-F | 0.827 (21.0) | 1.182 (30.0) | 1.575 (40.0) | 0.032 (0.8) | 12 |
| 630 Vdc | | | | | | |
| 0.010 | MMP6S1K-F | 0.197 (5.0) | 0.354 (9.0) | 0.670 (17.0) | 0.024 (0.6) | 72 |
| 0.015 | MMP6S15K-F | 0.236 (6.0) | 0.394 (10.0) | 0.670 (17.0) | 0.024 (0.6) | 72 |
| 0.022 | MMP6S22K-F | 0.236 (6.0) | 0.394 (10.0) | 0.670 (17.0) | 0.024 (0.6) | 72 |
| 0.033 | MMP6S33K-F | 0.236 (6.0) | 0.394 (10.0) | 0.670 (17.0) | 0.024 (0.6) | 72 |
| 0.047 | MMP6S47K-F | 0.236 (6.0) | 0.394 (10.0) | 0.906 (23.0) | 0.024 (0.6) | 43 |
| 0.068 | MMP6S68K-F | 0.276 (7.0) | 0.433 (11.0) | 0.906 (23.0) | 0.024 (0.6) | 43 |
| 0.100 | MMP6P1K-F | 0.315 (8.0) | 0.512 (13.0) | 0.906 (23.0) | 0.032 (0.8) | 43 |
| 0.150 | MMP6P15K-F | 0.394 (10.0) | 0.591 (15.0) | 0.906 (23.0) | 0.032 (0.8) | 43 |
| 0.220 | MMP6P22K-F | 0.354 (9.0) | 0.591 (15.0) | 1.063 (27.0) | 0.032 (0.8) | 28 |
| 0.330 | MMP6P33K-F | 0.394 (10.0) | 0.670 (17.0) | 1.063 (27.0) | 0.032 (0.8) | 28 |
| 0.470 | MMP6P47K-F | 0.473 (12.0) | 0.689 (17.5) | 1.378 (35.0) | 0.032 (0.8) | 21 |
| 0.680 | MMP6P68K-F | 0.433 (11.0) | 0.748 (19.0) | 1.378 (35.0) | 0.032 (0.8) | 21 |
| 1.000 | MMP6W1K-F | 0.512 (13.0) | 0.866 (22.0) | 1.536 (39.0) | 0.032 (0.8) | 21 |
| 1.500 | MMP6W1P5K-F | 0.670 (17.0) | 1.063 (27.0) | 1.536 (39.0) | 0.032 (0.8) | 21 |
| 2.200 | MMP6W2P2K-F | 0.748 (19.0) | 1.103 (28.0) | 1.930 (49.0) | 0.032 (0.8) | 12 |

Type MMP Polyester Film Capacitors

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