# Type DMT, Polyester Film Capacitors

## Film/Foil
## Radial Leads

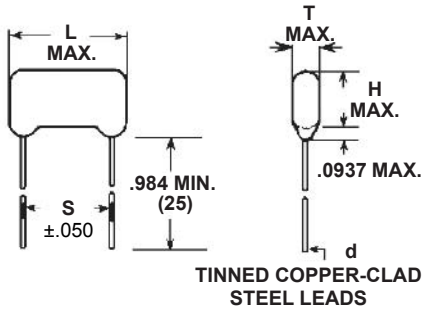


## General Purpose, High Peak Currents, High Insulation Resistance

**Type DMT** radial-leaded, polyester film/foil noninductively wound film capacitors feature compact size and moisture-resistive epoxy coating. High insulation resistance and low dissipation factor, **Type DMT** is an ideal choice for most applications, especially with high peak currents.

## Specifications

**Voltage Range:** 100-600 Vdc (65-250 Vac, 60 Hz)
**Capacitance Range:** .001-.68 µF
**Capacitance Tolerance:** ±10% (K) standard
±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:** 250% (1 minute)
**Dissipation Factor:** 1% Max. (25 °C, 1 kHz)
**Insulation Resistance:** 30,000 MΩ x µF
100,000 M Ω Min.
**Life Test:** 500 Hours at 85 °C at 125% Rated Voltage




**NOTE:** Other capacitance values, sizes and performance specifications are available. Contact us.

## Ratings

RoHS Compliant

| Cap. | Catalog | T | | H | | L | | S | | d | | dV/dt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (µF) | Part Number | Inches | (mm) | Inches | (mm) | Inches | (mm) | Inches | (mm) | Inches | (mm) | V/µs |
| 100 Vdc (65 Vac) | | | | | | | | | | | | |
| 0.0010 | DMT1D1K-F | 0.197 | (5.0) | 0.354 | (9.0) | 0.512 | (13.0) | 0.394 | (10.0) | 0.024 | (0.6) | 4550 |
| 0.0015 | DMT1D15K-F | 0.200 | (5.1) | 0.354 | (9.0) | 0.512 | (13.0) | 0.394 | (10.0) | 0.024 | (0.6) | 4550 |
| 0.0022 | DMT1D22K-F | 0.210 | (5.3) | 0.354 | (9.0) | 0.512 | (13.0) | 0.394 | (10.0) | 0.024 | (0.6) | 4550 |
| 0.0033 | DMT1D33K-F | 0.210 | (5.3) | 0.354 | (9.0) | 0.512 | (13.0) | 0.394 | (10.0) | 0.024 | (0.6) | 4550 |
| 0.0047 | DMT1D47K-F | 0.210 | (5.3) | 0.354 | (9.0) | 0.512 | (13.0) | 0.394 | (10.0) | 0.024 | (0.6) | 4550 |
| 0.0068 | DMT1D68K-F | 0.210 | (5.3) | 0.354 | (9.0) | 0.512 | (13.0) | 0.394 | (10.0) | 0.024 | (0.6) | 4550 |
| 0.0100 | DMT1S1K-F | 0.220 | (5.6) | 0.354 | (9.0) | 0.512 | (13.0) | 0.394 | (10.0) | 0.024 | (0.6) | 4550 |
| 0.0150 | DMT1S15K-F | 0.220 | (5.6) | 0.370 | (9.4) | 0.512 | (13.0) | 0.394 | (10.0) | 0.024 | (0.6) | 4550 |
| 0.0220 | DMT1S22K-F | 0.256 | (6.5) | 0.390 | (9.9) | 0.512 | (13.0) | 0.394 | (10.0) | 0.024 | (0.6) | 4550 |
| 0.0330 | DMT1S33K-F | 0.250 | (6.3) | 0.350 | (8.9) | 0.560 | (14.2) | 0.400 | (10.2) | 0.032 | (0.8) | 3300 |
| 0.0470 | DMT1S47K-F | 0.260 | (6.6) | 0.433 | (11.0) | 0.560 | (14.2) | 0.420 | (10.7) | 0.032 | (0.8) | 3300 |
| 0.0680 | DMT1S68K-F | 0.275 | (7.0) | 0.460 | (11.7) | 0.560 | (14.2) | 0.420 | (10.7) | 0.032 | (0.8) | 3300 |
| 0.1000 | DMT1P1K-F | 0.290 | (7.4) | 0.445 | (11.3) | 0.682 | (17.3) | 0.545 | (13.8) | 0.032 | (0.8) | 2100 |
| 0.1500 | DMT1P15K-F | 0.350 | (8.9) | 0.490 | (12.4) | 0.682 | (17.3) | 0.545 | (13.8) | 0.032 | (0.8) | 2100 |
| 0.2200 | DMT1P22K-F | 0.360 | (9.1) | 0.520 | (13.2) | 0.820 | (20.8) | 0.670 | (17.0) | 0.032 | (0.8) | 1600 |
| 0.3300 | DMT1P33K-F | 0.390 | (9.9) | 0.560 | (14.2) | 0.942 | (23.9) | 0.795 | (20.2) | 0.032 | (0.8) | 1600 |
| 0.4700 | DMT1P47K-F | 0.420 | (10.7) | 0.600 | (15.2) | 1.080 | (27.4) | 0.920 | (23.4) | 0.032 | (0.8) | 1050 |

## RoHS Compliant

| Cap. | Catalog | T | | H | | L | | S | | d | | dV/dt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (µF) | Part Number | Inches | (mm) | Inches | (mm) | Inches | (mm) | Inches | (mm) | Inches | (mm) | V/µs |
| 0.5000 | DMT1P5K-F | 0.530 | (13.5) | 0.690 | (17.5) | 1.102 | (28.0) | 0.920 | (23.4) | 0.032 | (0.8) | 1050 |
| 0.6800 | DMT1P68K-F | 0.480 | (12.2) | 0.690 | (17.5) | 1.140 | (28.9) | 0.985 | (25.0) | 0.032 | (0.8) | 1050 |
| 1.0000 | DMT1W1K-F | 0.520 | (13.2) | 0.730 | (18.5) | 1.330 | (33.8) | 1.170 | (29.7) | 0.032 | (0.8) | 800 |
| **200/250 Vdc (125 Vac)** | | | | | | | | | | | | |
| 0.0010 | DMT2D1K-F | 0.217 | (5.5) | 0.374 | (9.5) | 0.512 | (13.0) | 0.394 | (10.0) | 0.024 | (0.6) | 6000 |
| 0.0015 | DMT2D15K-F | 0.217 | (5.5) | 0.374 | (9.5) | 0.512 | (13.0) | 0.394 | (10.0) | 0.024 | (0.6) | 6000 |
| 0.0022 | DMT2D22K-F | 0.217 | (5.5) | 0.374 | (9.5) | 0.512 | (13.0) | 0.394 | (10.0) | 0.024 | (0.6) | 6000 |
| 0.0033 | DMT2D33K-F | 0.217 | (5.5) | 0.374 | (9.5) | 0.512 | (13.0) | 0.394 | (10.0) | 0.024 | (0.6) | 6000 |
| 0.0047 | DMT2D47K-F | 0.236 | (6.0) | 0.394 | (10.0) | 0.512 | (13.0) | 0.394 | (10.0) | 0.024 | (0.6) | 6000 |
| 0.0068 | DMT2D68K-F | 0.236 | (6.0) | 0.394 | (10.0) | 0.512 | (13.0) | 0.394 | (10.0) | 0.024 | (0.6) | 6000 |
| 0.0100 | DMT2S1K-F | 0.236 | (6.0) | 0.394 | (10.0) | 0.512 | (13.0) | 0.394 | (10.0) | 0.024 | (0.6) | 6000 |
| 0.0150 | DMT2S15K-F | 0.236 | (6.0) | 0.395 | (10.0) | 0.512 | (13.0) | 0.394 | (10.0) | 0.024 | (0.6) | 6000 |
| 0.0220 | DMT2S22K-F | 0.275 | (7.0) | 0.433 | (11.0) | 0.512 | (13.0) | 0.394 | (10.0) | 0.024 | (0.6) | 6000 |
| 0.0330 | DMT2S33K-F | 0.295 | (7.5) | 0.453 | (11.0) | 0.694 | (17.6) | 0.545 | (13.8) | 0.024 | (0.6) | 3000 |
| 0.0470 | DMT2S47K-F | 0.295 | (7.5) | 0.472 | (12.0) | 0.694 | (17.6) | 0.545 | (13.8) | 0.024 | (0.6) | 3000 |
| 0.0680 | DMT2S68K-F | 0.335 | (8.5) | 0.512 | (13.0) | 0.694 | (17.6) | 0.545 | (13.8) | 0.032 | (0.8) | 3000 |
| 0.1000 | DMT2P1K-F | 0.354 | (9.0) | 0.512 | (13.0) | 0.820 | (20.8) | 0.670 | (17.0) | 0.032 | (0.8) | 2100 |
| 0.1500 | DMT2P15K-F | 0.394 | (10.0) | 0.571 | (14.5) | 0.820 | (20.8) | 0.670 | (17.0) | 0.032 | (0.8) | 2100 |
| 0.2200 | DMT2P22K-F | 0.413 | (10.5) | 0.630 | (16.0) | 0.945 | (24.0) | 0.795 | (20.2) | 0.032 | (0.8) | 2100 |
| 0.3300 | DMT2P33K-F | 0.492 | (12.5) | 0.689 | (17.5) | 0.945 | (24.0) | 0.795 | (20.2) | 0.032 | (0.8) | 2100 |
| 0.4700 | DMT2P47K-F | 0.531 | (13.5) | 0.728 | (18.5) | 1.110 | (28.2) | 0.920 | (23.4) | 0.032 | (0.8) | 1360 |
| 0.6800 | DMT2P68K-F | 0.630 | (16.0) | 0.827 | (21.0) | 1.132 | (28.7) | 0.984 | (25.0) | 0.032 | (0.8) | 1360 |
| **400 Vdc (200 Vac)** | | | | | | | | | | | | |
| 0.0010 | DMT4D1K-F | 0.197 | (5.0) | 0.354 | (9.0) | 0.569 | (14.4) | 0.400 | (10.2) | 0.024 | (0.6) | 14400 |
| 0.0015 | DMT4D15K-F | 0.221 | (5.6) | 0.356 | (9.0) | 0.569 | (14.4) | 0.400 | (10.2) | 0.024 | (0.6) | 14400 |
| 0.0022 | DMT4D22K-F | 0.221 | (5.6) | 0.356 | (9.0) | 0.569 | (14.4) | 0.400 | (10.2) | 0.024 | (0.6) | 14400 |
| 0.0033 | DMT4D33K-F | 0.221 | (5.6) | 0.374 | (9.5) | 0.569 | (14.4) | 0.400 | (10.2) | 0.024 | (0.6) | 14400 |
| 0.0047 | DMT4D47K-F | 0.241 | (6.1) | 0.394 | (10.0) | 0.569 | (14.4) | 0.400 | (10.2) | 0.024 | (.6) | 14400 |
| 0.0068 | DMT4D68K-F | 0.286 | (7.3) | 0.411 | (10.4) | 0.569 | (14.4) | 0.400 | (10.2) | 0.024 | (0.6) | 14400 |
| 0.0100 | DMT4S1K-F | 0.331 | (8.4) | 0.456 | (11.6) | 0.569 | (14.4) | 0.400 | (10.2) | 0.032 | (0.8) | 14400 |
| 0.0150 | DMT4S15K-F | 0.368 | (9.3) | 0.534 | (13.6) | 0.569 | (14.4) | 0.400 | (10.2) | 0.032 | (0.8) | 14400 |
| 0.0220 | DMT4S22K-F | 0.328 | (8.3) | 0.479 | (12.2) | 0.694 | (17.6) | 0.545 | (13.8) | 0.032 | (0.8) | 7200 |
| 0.0330 | DMT4S33K-F | 0.388 | (9.9) | 0.539 | (13.7) | 0.694 | (17.6) | 0.545 | (13.8) | 0.032 | (0.8) | 7200 |
| 0.0470 | DMT4S47K-F | 0.338 | (8.6) | 0.534 | (13.6) | 0.882 | (22.4) | 0.733 | (18.6) | 0.032 | (0.8) | 4100 |
| 0.0680 | DMT4S68K-F | 0.397 | (10.1) | 0.593 | (15.1) | 0.882 | (22.4) | 0.733 | (18.6) | 0.032 | (0.8) | 4100 |
| 0.1000 | DMT4P1K-F | 0.472 | (12.0) | 0.668 | (17.0) | 0.882 | (22.4) | 0.733 | (18.6) | 0.032 | (0.8) | 4100 |
| 0.1500 | DMT4P15K-F | 0.408 | (10.4) | 0.810 | (20.6) | 1.069 | (27.1) | 0.920 | (23.4) | 0.032 | (0.8) | 2900 |
| 0.2200 | DMT4P22K-F | 0.418 | (10.6) | 0.811 | (20.6) | 1.319 | (33.5) | 1.170 | (29.7) | 0.032 | (0.8) | 2100 |
| 0.3300 | DMT4P33K-F | 0.415 | (10.5) | 0.844 | (21.4) | 1.569 | (39.8) | 1.420 | (36.1) | 0.032 | (0.8) | 2100 |
| 0.4700 | DMT4P47K-F | 0.541 | (13.7) | 0.934 | (23.7) | 1.569 | (39.8) | 1.420 | (36.1) | 0.032 | (0.8) | 2100 |
| **600/630 Vdc (250 Vac)** | | | | | | | | | | | | |
| 0.0010 | DMT6D1K-F | 0.218 | (5.5) | 0.326 | (8.3) | 0.694 | (17.6) | 0.545 | (13.8) | 0.024 | (0.6) | 15000 |
| 0.0015 | DMT6D15K-F | 0.221 | (5.6) | 0.329 | (8.4) | 0.694 | (17.6) | 0.545 | (13.8) | 0.024 | (0.6) | 15000 |
| 0.0022 | DMT6D22K-F | 0.251 | (6.4) | 0.359 | (9.1) | 0.694 | (17.6) | 0.545 | (13.8) | 0.024 | (0.6) | 15000 |
| 0.0033 | DMT6D33K-F | 0.251 | (6.4) | 0.376 | (9.5) | 0.694 | (17.6) | 0.545 | (13.8) | 0.032 | (0.8) | 15000 |
| 0.0047 | DMT6D47K-F | 0.284 | (7.2) | 0.409 | (10.4) | 0.694 | (17.6) | 0.545 | (13.8) | 0.032 | (0.8) | 15000 |

# Type DMT, Polyester Film Capacitors

**RoHS Compliant**

| Cap. | Catalog | T | | H | | L | | S | | d | | dV/dt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (µF) | Part Number | Inches | (mm) | Inches | (mm) | Inches | (mm) | Inches | (mm) | Inches | (mm) | V/µs |
| 600/630 Vdc (250 Vac) | | | | | | | | | | | | |
| 0.0068 | DMT6D68K-F | 0.313 | (7.9) | 0.464 | (11.8) | 0.694 | (17.6) | 0.545 | (13.8) | 0.032 | (0.8) | 15000 |
| 0.0100 | DMT6S1K-F | 0.364 | (9.2) | 0.515 | (13.1) | 0.694 | (17.6) | 0.545 | (13.8) | 0.032 | (0.8) | 15000 |
| 0.0150 | DMT6S15K-F | 0.342 | (8.7) | 0.508 | (12.9) | 0.820 | (20.8) | 0.670 | (17.0) | 0.032 | (0.8) | 7400 |
| 0.0220 | DMT6S22K-F | 0.402 | (10.2) | 0.568 | (14.4) | 0.820 | (20.8) | 0.670 | (17.0) | 0.032 | (0.8) | 7400 |
| 0.0330 | DMT6S33K-F | 0.443 | (11.2) | 0.609 | (15.5) | 0.882 | (22.4) | 0.733 | (18.6) | 0.032 | (0.8) | 7400 |
| 0.0470 | DMT6S47K-F | 0.519 | (13.2) | 0.685 | (17.4) | 0.882 | (22.4) | 0.733 | (18.6) | 0.032 | (0.8) | 7400 |
| 0.0680 | DMT6S68K-F | 0.453 | (11.5) | 0.649 | (16.5) | 1.194 | (30.3) | 1.045 | (26.5) | 0.032 | (0.8) | 4000 |
| 0.1000 | DMT6P1K-F | 0.541 | (13.7) | 0.737 | (18.7) | 1.194 | (30.3) | 1.045 | (26.5) | 0.032 | (0.8) | 4000 |
| 0.1500 | DMT6P15K-F | 0.656 | (16.7) | 0.926 | (23.5) | 1.194 | (30.3) | 1.045 | (26.5) | 0.032 | (0.8) | 4000 |
| 0.2200 | DMT6P22K-F | 0.630 | (16.0) | 1.024 | (26.0) | 1.444 | (36.7) | 1.295 | (32.9) | 0.032 | (0.8) | 3000 |
| 0.3300 | DMT6P33K-F | 0.650 | (16.5) | 1.010 | (25.6) | 1.819 | (46.2) | 1.670 | (42.4) | 0.032 | (0.8) | 3000 |
| 0.4700 | DMT6P47K-F | 0.739 | (18.8) | 1.132 | (28.7) | 1.819 | (46.2) | 1.670 | (42.4) | 0.032 | (0.8) | 3000 |