

# 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:** 100-630 Vdc (65-250 Vac, 60Hz)

**Capacitance Range:** .001-.68  $\mu$ F

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

**Operating Temperature Range:**  $-55^{\circ}\text{C}$  to  $125^{\circ}\text{C}^*$

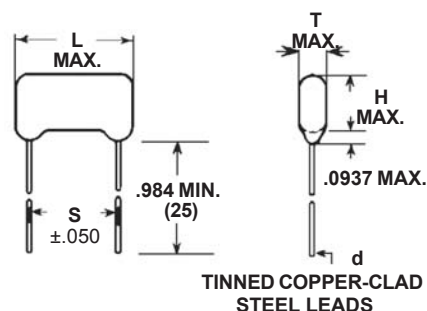
\*Full-rated voltage at  $85^{\circ}\text{C}$ —Derate linearly to 50%-rated voltage at  $125^{\circ}\text{C}$

**Dielectric Strength:** 250% (1 minute)

**Dissipation Factor:** 1% Max. ( $25^{\circ}\text{C}$ , 1 kHz)

**Insulation Resistance:** 30,000  $\text{M}\Omega \times \mu\text{F}$   
100,000  $\text{M}\Omega$  Min.

**Life Test:** 500 Hours at  $85^{\circ}\text{C}$  at 125% Rated Voltage



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

## Ratings and Dimensions

Normally Stocked

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

# Type DMT Polyester Film Capacitors

| Cap.<br>( $\mu$ F)               | Catalog Part<br>Number | T      |        | H      |        | L      |        | S      |        | d      |       | dV/dt<br>V/ $\mu$ s |
|----------------------------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|---------------------|
|                                  |                        | Inches | (mm)   | Inches | (mm)   | Inches | (mm)   | Inches | (mm)   | Inches | (mm)  |                     |
| <b>100 Vdc (65 Vac) (cont'd)</b> |                        |        |        |        |        |        |        |        |        |        |       |                     |
| 0.5000                           | DMT1P5K                | 0.530  | (13.5) | 0.690  | (17.5) | 1.102  | (28.0) | 0.920  | (23.4) | 0.032  | (0.8) | 1050                |
| 0.6800                           | DMT1P68K               | 0.480  | (12.2) | 0.690  | (17.5) | 1.140  | (28.9) | 0.985  | (25.0) | 0.032  | (0.8) | 1050                |
| 1.0000                           | DMT1W1K                | 0.520  | (13.2) | 0.730  | (18.5) | 1.330  | (33.8) | 1.170  | (29.7) | 0.032  | (0.8) | 800                 |
| <b>200/250 Vdc (125 Vac)</b>     |                        |        |        |        |        |        |        |        |        |        |       |                     |
| 0.0010                           | DMT2D1K                | 0.217  | (5.5)  | 0.374  | (9.5)  | 0.512  | (13.0) | 0.394  | (10.0) | 0.024  | (0.6) | 6000                |
| 0.0015                           | DMT2D15K               | 0.217  | (5.5)  | 0.374  | (9.5)  | 0.512  | (13.0) | 0.394  | (10.0) | 0.024  | (0.6) | 6000                |
| 0.0022                           | DMT2D22K               | 0.217  | (5.5)  | 0.374  | (9.5)  | 0.512  | (13.0) | 0.394  | (10.0) | 0.024  | (0.6) | 6000                |
| 0.0033                           | DMT2D33K               | 0.217  | (5.5)  | 0.374  | (9.5)  | 0.512  | (13.0) | 0.394  | (10.0) | 0.024  | (0.6) | 6000                |
| 0.0047                           | DMT2D47K               | 0.236  | (6.0)  | 0.394  | (10.0) | 0.512  | (13.0) | 0.394  | (10.0) | 0.024  | (0.6) | 6000                |
| 0.0068                           | DMT2D68K               | 0.236  | (6.0)  | 0.394  | (10.0) | 0.512  | (13.0) | 0.394  | (10.0) | 0.024  | (0.6) | 6000                |
| 0.0100                           | DMT2S1K                | 0.236  | (6.0)  | 0.394  | (10.0) | 0.512  | (13.0) | 0.394  | (10.0) | 0.024  | (0.6) | 6000                |
| 0.0150                           | DMT2S15K               | 0.236  | (6.0)  | 0.395  | (10.0) | 0.512  | (13.0) | 0.400  | (10.2) | 0.024  | (0.6) | 6000                |
| 0.0220                           | DMT2S22K               | 0.275  | (7.0)  | 0.433  | (11.0) | 0.512  | (13.0) | 0.420  | (10.7) | 0.024  | (0.6) | 6000                |
| 0.0330                           | DMT2S33K               | 0.295  | (7.5)  | 0.453  | (11.0) | 0.694  | (17.6) | 0.545  | (13.8) | 0.024  | (0.6) | 3000                |
| 0.0470                           | DMT2S47K               | 0.295  | (7.5)  | 0.472  | (12.0) | 0.694  | (17.6) | 0.545  | (13.8) | 0.024  | (0.6) | 3000                |
| 0.0680                           | DMT2S68K               | 0.335  | (8.5)  | 0.512  | (13.0) | 0.694  | (17.6) | 0.545  | (13.8) | 0.032  | (0.8) | 3000                |
| 0.1000                           | DMT2P1K                | 0.354  | (9.0)  | 0.512  | (13.0) | 0.820  | (20.8) | 0.670  | (17.0) | 0.032  | (0.8) | 2100                |
| 0.1500                           | DMT2P15K               | 0.394  | (10.0) | 0.571  | (14.5) | 0.820  | (20.8) | 0.670  | (17.0) | 0.032  | (0.8) | 2100                |
| 0.2200                           | DMT2P22K               | 0.413  | (10.5) | 0.630  | (16.0) | 0.945  | (24.0) | 0.795  | (20.2) | 0.032  | (0.8) | 2100                |
| 0.3300                           | DMT2P33K               | 0.492  | (12.5) | 0.689  | (17.5) | 0.945  | (24.0) | 0.795  | (20.2) | 0.032  | (0.8) | 2100                |
| 0.4700                           | DMT2P47K               | 0.531  | (13.5) | 0.728  | (18.5) | 1.110  | (28.2) | 0.920  | (23.4) | 0.032  | (0.8) | 1360                |
| 0.6800                           | DMT2P68K               | 0.630  | (16.0) | 0.827  | (21.0) | 1.132  | (28.7) | 0.984  | (25.0) | 0.032  | (0.8) | 1360                |
| <b>400 Vdc (200 Vac)</b>         |                        |        |        |        |        |        |        |        |        |        |       |                     |
| 0.0010                           | DMT4D1K                | 0.197  | (5.0)  | 0.354  | (9.0)  | 0.569  | (14.4) | 0.400  | (10.2) | 0.024  | (0.6) | 14400               |
| 0.0015                           | DMT4D15K               | 0.221  | (5.6)  | 0.356  | (9.0)  | 0.569  | (14.4) | 0.400  | (10.2) | 0.024  | (0.6) | 14400               |
| 0.0022                           | DMT4D22K               | 0.221  | (5.6)  | 0.356  | (9.0)  | 0.569  | (14.4) | 0.400  | (10.2) | 0.024  | (0.6) | 14400               |
| 0.0033                           | DMT4D33K               | 0.221  | (5.6)  | 0.374  | (9.5)  | 0.569  | (14.4) | 0.400  | (10.2) | 0.024  | (0.6) | 14400               |
| 0.0047                           | DMT4D47K               | 0.241  | (6.1)  | 0.394  | (10.0) | 0.569  | (14.4) | 0.400  | (10.2) | 0.024  | (.6)  | 14400               |
| 0.0068                           | DMT4D68K               | 0.286  | (7.3)  | 0.411  | (10.4) | 0.569  | (14.4) | 0.400  | (10.2) | 0.024  | (0.6) | 14400               |
| 0.0100                           | DMT4S1K                | 0.331  | (8.4)  | 0.456  | (11.6) | 0.569  | (14.4) | 0.400  | (10.2) | 0.032  | (0.8) | 14400               |
| 0.0150                           | DMT4S15K               | 0.368  | (9.3)  | 0.534  | (13.6) | 0.569  | (14.4) | 0.400  | (10.2) | 0.032  | (0.8) | 14400               |
| 0.0220                           | DMT4S22K               | 0.328  | (8.3)  | 0.479  | (12.2) | 0.694  | (17.6) | 0.545  | (13.8) | 0.032  | (0.8) | 7200                |
| 0.0330                           | DMT4S33K               | 0.388  | (9.9)  | 0.539  | (13.7) | 0.694  | (17.6) | 0.545  | (13.8) | 0.032  | (0.8) | 7200                |
| 0.0470                           | DMT4S47K               | 0.338  | (8.6)  | 0.534  | (13.6) | 0.882  | (22.4) | 0.733  | (18.6) | 0.032  | (0.8) | 4100                |
| 0.0680                           | DMT4S68K               | 0.397  | (10.1) | 0.593  | (15.1) | 0.882  | (22.4) | 0.733  | (18.6) | 0.032  | (0.8) | 4100                |
| 0.1000                           | DMT4P1K                | 0.472  | (12.0) | 0.668  | (17.0) | 0.882  | (22.4) | 0.733  | (18.6) | 0.032  | (0.8) | 4100                |
| 0.1500                           | DMT4P15K               | 0.408  | (10.4) | 0.810  | (20.6) | 1.069  | (27.1) | 0.920  | (23.4) | 0.032  | (0.8) | 2900                |
| 0.2200                           | DMT4P22K               | 0.418  | (10.6) | 0.811  | (20.6) | 1.319  | (33.5) | 1.170  | (29.7) | 0.032  | (0.8) | 2100                |
| 0.3300                           | DMT4P33K               | 0.415  | (10.5) | 0.844  | (21.4) | 1.569  | (39.8) | 1.420  | (36.1) | 0.032  | (0.8) | 2100                |
| 0.4700                           | DMT4P47K               | 0.541  | (13.7) | 0.934  | (23.7) | 1.569  | (39.8) | 1.420  | (36.1) | 0.032  | (0.8) | 2100                |
| <b>600/630 Vdc (250 Vac)</b>     |                        |        |        |        |        |        |        |        |        |        |       |                     |
| 0.0010                           | DMT6D1K                | 0.218  | (5.5)  | 0.326  | (8.3)  | 0.694  | (17.6) | 0.545  | (13.8) | 0.024  | (0.6) | 15000               |
| 0.0015                           | DMT6D15K               | 0.221  | (5.6)  | 0.329  | (8.4)  | 0.694  | (17.6) | 0.545  | (13.8) | 0.024  | (0.6) | 15000               |
| 0.0022                           | DMT6D22K               | 0.251  | (6.4)  | 0.359  | (9.1)  | 0.694  | (17.6) | 0.545  | (13.8) | 0.024  | (0.6) | 15000               |
| 0.0033                           | DMT6D33K               | 0.251  | (6.4)  | 0.376  | (9.5)  | 0.694  | (17.6) | 0.545  | (13.8) | 0.032  | (0.8) | 15000               |
| 0.0047                           | DMT6D47K               | 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

| Cap.<br>( $\mu$ F)    | Catalog Part<br>Number | T      |        | H      |        | L      |        | S      |        | d      |       | dV/dt<br>V/ $\mu$ s |
|-----------------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|---------------------|
| Inches                | (mm)                   | Inches | (mm)   | Inches | (mm)   | Inches | (mm)   | Inches | (mm)   | Inches | (mm)  |                     |
| 600/630 Vdc (250 Vac) |                        |        |        |        |        |        |        |        |        |        |       |                     |
| 0.0068                | DMT6D68K               | 0.313  | (7.9)  | 0.464  | (11.8) | 0.694  | (17.6) | 0.545  | (13.8) | 0.032  | (0.8) | 15000               |
| 0.0100                | DMT6S1K                | 0.364  | (9.2)  | 0.515  | (13.1) | 0.694  | (17.6) | 0.545  | (13.8) | 0.032  | (0.8) | 15000               |
| 0.0150                | DMT6S15K               | 0.342  | (8.7)  | 0.508  | (12.9) | 0.820  | (20.8) | 0.670  | (17.0) | 0.032  | (0.8) | 7400                |
| 0.0220                | DMT6S22K               | 0.402  | (10.2) | 0.568  | (14.4) | 0.820  | (20.8) | 0.670  | (17.0) | 0.032  | (0.8) | 7400                |
| 0.0330                | DMT6S33K               | 0.443  | (11.2) | 0.609  | (15.5) | 0.882  | (22.4) | 0.733  | (18.6) | 0.032  | (0.8) | 7400                |
| 0.0470                | DMT6S47K               | 0.519  | (13.2) | 0.685  | (17.4) | 0.882  | (22.4) | 0.733  | (18.6) | 0.032  | (0.8) | 7400                |
| 0.0680                | DMT6S68K               | 0.453  | (11.5) | 0.649  | (16.5) | 1.194  | (30.3) | 1.045  | (26.5) | 0.032  | (0.8) | 4000                |
| 0.1000                | DMTP61K                | 0.541  | (13.7) | 0.737  | (18.7) | 1.194  | (30.3) | 1.045  | (26.5) | 0.032  | (0.8) | 4000                |
| 0.1500                | DMT6P15K               | 0.656  | (16.7) | 0.926  | (23.5) | 1.194  | (30.3) | 1.045  | (26.5) | 0.032  | (0.8) | 4000                |
| 0.2200                | DMT6P22K               | 0.630  | (16.0) | 1.024  | (26.0) | 1.444  | (36.7) | 1.295  | (32.9) | 0.032  | (0.8) | 3000                |
| 0.3300                | DMT6P33K               | 0.650  | (16.5) | 1.010  | (25.6) | 1.819  | (46.2) | 1.670  | (42.4) | 0.032  | (0.8) | 3000                |
| 0.4700                | DMT6P47K               | 0.739  | (18.8) | 1.132  | (28.7) | 1.819  | (46.2) | 1.670  | (42.4) | 0.032  | (0.8) | 3000                |