



**THE DATASHEET OF  
DMM2P22K-F**



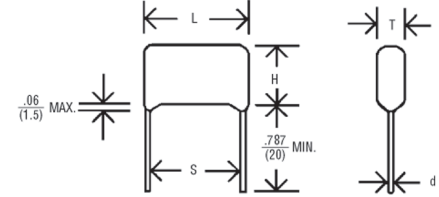
# Type DMM Polyester Film Capacitors

## Metallized - Radial Leads

## DC Applications - Self Healing



**Type DMM** radial-leaded, metallized polyester capacitors have non-inductive windings and multi-layered epoxy resin enhancing performance characteristics and humidity resistance. Self healing characteristics prevent permanent shorting due to high-voltage transients. When long life and performance stability are critical **Type DMM** is the ideal solution.



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

## Specifications

| Capacitance Range                      | .01-10 $\mu$ F   |             |             |             |      |  |  |      |      |      |             |      |  |   |  |  |  |  |     |    |    |   |   |  |     |    |    |    |   |   |     |    |    |    |    |    |     |    |    |    |    |    |
|--|--|-------------|-------------|-------------|------|--|--|------|------|------|-------------|------|--|---|--|--|--|--|-----|----|----|---|---|--|-----|----|----|----|---|---|-----|----|----|----|----|----|-----|----|----|----|----|----|
| Capacitance Tolerance                  | $\pm$ 10% (K) standard, $\pm$ 5% (J) optional  |             |             |             |      |  |  |      |      |      |             |      |  |   |  |  |  |  |     |    |    |   |   |  |     |    |    |    |   |   |     |    |    |    |    |    |     |    |    |    |    |    |
| Rated Voltage                          | 100 - 630 Vdc  |             |             |             |      |  |  |      |      |      |             |      |  |   |  |  |  |  |     |    |    |   |   |  |     |    |    |    |   |   |     |    |    |    |    |    |     |    |    |    |    |    |
| Operating Temperature Range            | -55 $^{\circ}$ C to +125 $^{\circ}$ C (with 50% Vdc derating >85 $^{\circ}$ C)   |             |             |             |      |  |  |      |      |      |             |      |  |   |  |  |  |  |     |    |    |   |   |  |     |    |    |    |   |   |     |    |    |    |    |    |     |    |    |    |    |    |
| Dielectric Strength                    | 150% (1 minute)  |             |             |             |      |  |  |      |      |      |             |      |  |   |  |  |  |  |     |    |    |   |   |  |     |    |    |    |   |   |     |    |    |    |    |    |     |    |    |    |    |    |
| Dissipation Factor                     | 1% Max. (25 $^{\circ}$ C, 1kHz)  |             |             |             |      |  |  |      |      |      |             |      |  |   |  |  |  |  |     |    |    |   |   |  |     |    |    |    |   |   |     |    |    |    |    |    |     |    |    |    |    |    |
| Insulation Resistance                  | 5,000 M $\Omega$ x $\mu$ F, 10,000 M $\Omega$ Min  |             |             |             |      |  |  |      |      |      |             |      |  |   |  |  |  |  |     |    |    |   |   |  |     |    |    |    |   |   |     |    |    |    |    |    |     |    |    |    |    |    |
| Life Test                              | 1000 Hours at 85 $^{\circ}$ C at 125% Rated Voltage  |             |             |             |      |  |  |      |      |      |             |      |  |   |  |  |  |  |     |    |    |   |   |  |     |    |    |    |   |   |     |    |    |    |    |    |     |    |    |    |    |    |
| Pulse Capability                       | <table border="1"> <thead> <tr> <th rowspan="2">Rated Volts</th> <th colspan="5">Body Length</th> </tr> <tr> <th>0.55</th> <th>0.71</th> <th>0.94</th> <th>1.024-1.220</th> <th>1.38</th> </tr> </thead> <tbody> <tr> <td></td> <td colspan="5" style="text-align:center"><b>dV/dt—volts per microsecond, maximum</b></td> </tr> <tr> <td>100</td> <td>20</td> <td>12</td> <td>8</td> <td>6</td> <td></td> </tr> <tr> <td>250</td> <td>28</td> <td>17</td> <td>12</td> <td>8</td> <td>7</td> </tr> <tr> <td>400</td> <td>46</td> <td>28</td> <td>15</td> <td>14</td> <td>12</td> </tr> <tr> <td>630</td> <td>72</td> <td>43</td> <td>28</td> <td>21</td> <td>17</td> </tr> </tbody> </table> | Rated Volts | Body Length |             |      |  |  | 0.55 | 0.71 | 0.94 | 1.024-1.220 | 1.38 |  | <b>dV/dt—volts per microsecond, maximum</b> |  |  |  |  | 100 | 20 | 12 | 8 | 6 |  | 250 | 28 | 17 | 12 | 8 | 7 | 400 | 46 | 28 | 15 | 14 | 12 | 630 | 72 | 43 | 28 | 21 | 17 |
| Rated Volts                            | Body Length  |             |             |             |      |  |  |      |      |      |             |      |  |   |  |  |  |  |     |    |    |   |   |  |     |    |    |    |   |   |     |    |    |    |    |    |     |    |    |    |    |    |
|  | 0.55   | 0.71        | 0.94        | 1.024-1.220 | 1.38 |  |  |      |      |      |             |      |  |   |  |  |  |  |     |    |    |   |   |  |     |    |    |    |   |   |     |    |    |    |    |    |     |    |    |    |    |    |
|  | <b>dV/dt—volts per microsecond, maximum</b>  |             |             |             |      |  |  |      |      |      |             |      |  |   |  |  |  |  |     |    |    |   |   |  |     |    |    |    |   |   |     |    |    |    |    |    |     |    |    |    |    |    |
| 100                                    | 20   | 12          | 8           | 6           |      |  |  |      |      |      |             |      |  |   |  |  |  |  |     |    |    |   |   |  |     |    |    |    |   |   |     |    |    |    |    |    |     |    |    |    |    |    |
| 250                                    | 28   | 17          | 12          | 8           | 7    |  |  |      |      |      |             |      |  |   |  |  |  |  |     |    |    |   |   |  |     |    |    |    |   |   |     |    |    |    |    |    |     |    |    |    |    |    |
| 400                                    | 46   | 28          | 15          | 14          | 12   |  |  |      |      |      |             |      |  |   |  |  |  |  |     |    |    |   |   |  |     |    |    |    |   |   |     |    |    |    |    |    |     |    |    |    |    |    |
| 630                                    | 72   | 43          | 28          | 21          | 17   |  |  |      |      |      |             |      |  |   |  |  |  |  |     |    |    |   |   |  |     |    |    |    |   |   |     |    |    |    |    |    |     |    |    |    |    |    |
| <a href="#">Regulatory Information</a> |  |             |             |             |      |  |  |      |      |      |             |      |  |   |  |  |  |  |     |    |    |   |   |  |     |    |    |    |   |   |     |    |    |    |    |    |     |    |    |    |    |    |

## Ratings

| Cap. ( $\mu$ F) | Catalog Part Number | T Max. Inches (mm) | H Max. Inches (mm) | L Max. Inches (mm) | S $\pm$ .06 ( $\pm$ 1.5) Inches (mm) | d Inches (mm) |
|-----------------|---------------------|--------------------|--------------------|--------------------|--------------------------------------|---------------|
| <b>100 Vdc</b>  |                     |                    |                    |                    |                                      |               |
| 0.15            | DMM1P15K-F          | 0.236 (6.0)        | 0.394 (10.0)       | 0.551 (14.0)       | 0.394 (10.0)                         | 0.024 (0.6)   |
| 0.22            | DMM1P22K-F          | 0.236 (6.0)        | 0.414 (10.5)       | 0.551 (14.0)       | 0.394 (10.0)                         | 0.024 (0.6)   |
| 0.33            | DMM1P33K-F          | 0.236 (6.0)        | 0.414 (10.5)       | 0.709 (18.0)       | 0.591 (15.0)                         | 0.024 (0.6)   |
| 0.47            | DMM1P47K-F          | 0.236 (6.0)        | 0.473 (12.0)       | 0.709 (18.0)       | 0.591 (15.0)                         | 0.024 (0.6)   |
| 0.68            | DMM1P68K-F          | 0.276 (7.0)        | 0.551 (14.0)       | 0.709 (18.0)       | 0.591 (15.0)                         | 0.024 (0.6)   |
| 1.00            | DMM1W1K-F           | 0.354 (9.0)        | 0.591 (15.0)       | 0.709 (18.0)       | 0.591 (15.0)                         | 0.032 (0.8)   |
| 1.50            | DMM1W1P5K-F         | 0.354 (9.0)        | 0.670 (17.0)       | 1.024 (26.0)       | 0.886 (22.5)                         | 0.032 (0.8)   |
| 2.20            | DMM1W2P2K-F         | 0.433 (11.0)       | 0.788 (20.0)       | 1.024 (26.0)       | 0.886 (22.5)                         | 0.032 (0.8)   |
| 3.30            | DMM1W3P3K-F         | 0.453 (11.5)       | 0.788 (20.0)       | 1.024 (26.0)       | 0.886 (22.5)                         | 0.032 (0.8)   |
| 4.70            | DMM1W4P7K-F         | 0.512 (13.0)       | 0.906 (23.0)       | 1.221 (31.0)       | 1.083 (27.5)                         | 0.032 (0.8)   |
| 6.80            | DMM1W6P8K-F         | 0.630 (16.0)       | 1.024 (26.0)       | 1.221 (31.0)       | 1.083 (27.5)                         | 0.032 (0.8)   |
| 10.00           | DMM1W10K-F          | 0.709 (18.0)       | 1.221 (31.0)       | 1.221 (31.0)       | 1.083 (27.5)                         | 0.032 (0.8)   |

# Type DMM Polyester Film Capacitors

**RoHS Compliant**

| Cap.<br>( $\mu$ F) | Catalog<br>Part Number | T Max.<br>Inches (mm) | H Max.<br>Inches (mm) | L Max.<br>Inches (mm) | S $\pm$ .06 ( $\pm$ 1.5)<br>Inches (mm) | d<br>Inches (mm) |
|--------------------|------------------------|-----------------------|-----------------------|-----------------------|---|------------------|
| <b>250 Vdc</b>     |                        |                       |                       |                       |   |                  |
| 0.068              | DMM2S68K-F             | 0.236 (6.0)           | 0.394 (10.0)          | 0.551 (14.0)          | 0.390 (10.0)                            | 0.024 (0.6)      |
| 0.10               | DMM2P1K-F              | 0.276 (7.0)           | 0.394 (10.0)          | 0.551 (14.0)          | 0.390 (10.0)                            | 0.024 (0.6)      |
| 0.15               | DMM2P15K-F             | 0.276 (7.0)           | 0.433 (11.0)          | 0.709 (18.0)          | 0.590 (15.0)                            | 0.024 (0.6)      |
| 0.22               | DMM2P22K-F             | 0.276 (7.0)           | 0.473 (12.0)          | 0.709 (18.0)          | 0.590 (15.0)                            | 0.024 (0.6)      |
| 0.33               | DMM2P33K-F             | 0.276 (7.0)           | 0.512 (13.0)          | 0.709 (18.0)          | 0.590 (15.0)                            | 0.024 (0.6)      |
| 0.47               | DMM2P47K-F             | 0.315 (8.0)           | 0.591 (15.0)          | 1.024 (26.0)          | 0.886 (22.5)                            | 0.032 (0.8)      |
| 0.68               | DMM2P68K-F             | 0.354 (9.0)           | 0.610 (15.5)          | 1.024 (26.0)          | 0.886 (22.5)                            | 0.032 (0.8)      |
| 1.00               | DMM2W1K-F              | 0.394 (10.0)          | 0.670 (17.0)          | 1.024 (26.0)          | 0.886 (22.5)                            | 0.032 (0.8)      |
| 1.50               | DMM2W1P5K-F            | 0.394 (10.0)          | 0.768 (19.5)          | 1.221 (31.0)          | 1.083 (27.5)                            | 0.032 (0.8)      |
| 2.20               | DMM2W2P2K-F            | 0.512 (13.0)          | 0.866 (22.0)          | 1.221 (31.0)          | 1.083 (27.5)                            | 0.032 (0.8)      |
| 3.30               | DMM2W3P3K-F            | 0.630 (16.0)          | 1.024 (26.0)          | 1.221 (31.0)          | 1.083 (27.5)                            | 0.032 (0.8)      |
| 4.70               | DMM2W4P7K-F            | 0.630 (16.0)          | 1.024 (26.0)          | 1.221 (31.0)          | 1.083 (27.5)                            | 0.032 (0.8)      |
| <b>400 Vdc</b>     |                        |                       |                       |                       |   |                  |
| 0.033              | DMM4S33K-F             | 0.236 (6.0)           | 0.414 (10.5)          | 0.551 (14.0)          | 0.394 (10.0)                            | 0.024 (0.6)      |
| 0.047              | DMM4S47K-F             | 0.315 (8.0)           | 0.433 (11.0)          | 0.551 (14.0)          | 0.394 (10.0)                            | 0.024 (0.6)      |
| 0.068              | DMM4S68K-F             | 0.236 (6.0)           | 0.512 (13.0)          | 0.709 (18.0)          | 0.591 (15.0)                            | 0.024 (0.6)      |
| 0.10               | DMM4P1K-F              | 0.256 (6.5)           | 0.512 (13.0)          | 0.709 (18.0)          | 0.591 (15.0)                            | 0.024 (0.6)      |
| 0.15               | DMM4P15K-F             | 0.276 (7.0)           | 0.551 (14.0)          | 0.709 (18.0)          | 0.591 (15.0)                            | 0.032 (0.8)      |
| 0.22               | DMM4P22K-F             | 0.354 (9.0)           | 0.630 (16.0)          | 1.024 (26.0)          | 0.886 (22.5)                            | 0.032 (0.8)      |
| 0.33               | DMM4P33K-F             | 0.354 (9.0)           | 0.630 (16.0)          | 1.024 (26.0)          | 0.886 (22.5)                            | 0.032 (0.8)      |
| 0.47               | DMM4P47K-F             | 0.394 (10.0)          | 0.709 (18.0)          | 1.024 (26.0)          | 0.886 (22.5)                            | 0.032 (0.8)      |
| 0.68               | DMM4P68K-F             | 0.414 (10.5)          | 0.709 (18.0)          | 1.221 (31.0)          | 1.083 (27.5)                            | 0.032 (0.8)      |
| 1.00               | DMM4W1K-F              | 0.473 (12.0)          | 0.866 (22.0)          | 1.221 (31.0)          | 1.083 (27.5)                            | 0.032 (0.8)      |
| <b>630 Vdc</b>     |                        |                       |                       |                       |   |                  |
| 0.01               | DMM6S1K-F              | 0.236 (6.0)           | 0.394 (10.0)          | 0.551 (14.0)          | 0.394 (10.0)                            | 0.024 (0.6)      |
| 0.015              | DMM6S15K-F             | 0.256 (6.5)           | 0.453 (11.5)          | 0.551 (14.0)          | 0.394 (10.0)                            | 0.024 (0.6)      |
| 0.022              | DMM6S22K-F             | 0.276 (7.0)           | 0.492 (12.5)          | 0.551 (14.0)          | 0.394 (10.0)                            | 0.024 (0.6)      |
| 0.033              | DMM6S33K-F             | 0.315 (8.0)           | 0.532 (13.5)          | 0.709 (18.0)          | 0.591 (15.0)                            | 0.024 (0.6)      |
| 0.047              | DMM6S47K-F             | 0.295 (7.5)           | 0.492 (12.5)          | 0.709 (18.0)          | 0.591 (15.0)                            | 0.024 (0.6)      |
| 0.068              | DMM6S68K-F             | 0.335 (8.5)           | 0.571 (14.5)          | 0.709 (18.0)          | 0.591 (15.0)                            | 0.032 (0.8)      |
| 0.10               | DMM6P1K-F              | 0.374 (9.5)           | 0.630 (16.0)          | 0.709 (18.0)          | 0.591 (15.0)                            | 0.032 (0.8)      |
| 0.15               | DMM6P15K-F             | 0.394 (10.0)          | 0.670 (17.0)          | 1.024 (26.0)          | 0.886 (22.5)                            | 0.032 (0.8)      |
| 0.22               | DMM6P22K-F             | 0.433 (11.0)          | 0.788 (20.0)          | 1.024 (26.0)          | 0.886 (22.5)                            | 0.032 (0.8)      |
| 0.33               | DMM6P33K-F             | 0.512 (13.0)          | 0.866 (22.0)          | 1.221 (31.0)          | 1.083 (27.5)                            | 0.032 (0.8)      |
| 0.47               | DMM6P47K-F             | 0.512 (13.0)          | 0.866 (22.0)          | 1.221 (31.0)          | 1.083 (27.5)                            | 0.032 (0.8)      |
| 0.68               | DMM6P68K-F             | 0.591 (15.0)          | 1.024 (26.0)          | 1.221 (31.0)          | 1.083 (27.5)                            | 0.032 (0.8)      |
| 1.00               | DMM6W1K-F              | 0.689 (17.5)          | 1.182 (30.0)          | 1.221 (31.0)          | 1.083 (27.5)                            | 0.032 (0.8)      |

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