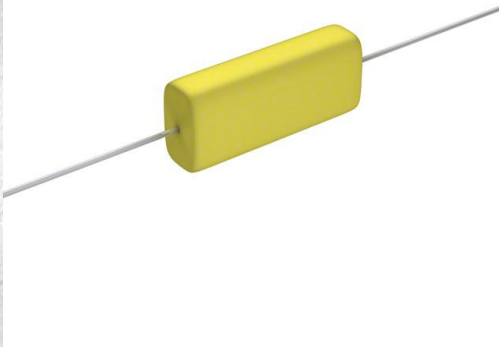


# MMP6S47K-F Datasheet

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|                              |  |
|------------------------------|--|
| DiGi Electronics Part Number | MMP6S47K-F-DG  |
| Manufacturer                 | <a href="#">Cornell Dubilier Electronics (CDE)</a>                 |
| Manufacturer Product Number  | MMP6S47K-F   |
| Description                  | CAP FILM 0.047UF 630VDC AXIAL                                      |
| Detailed Description         | 0.047 $\mu$ F Film Capacitor 250V 630V Polyester, Metallized Axial |

This model MMP6S47K-F is available at DiGi Electronics.

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## Purchase and inquiry

Manufacturer Product Number:

MMP6S47K-F

Series:

MMP

Capacitance:

0.047  $\mu$ F

Voltage Rating - AC:

250V

Dielectric Material:

Polyester, Metallized

Mounting Type:

Through Hole

Size / Dimension:

0.394" W, 0.236" T x 0.906" L (10.00mm, 6.00mm x 23.00mm)

Termination:

PC Pins

Applications:

General Purpose

Features:

Long Life

Manufacturer:

Cornell Dubilier Electronics (CDE)

Product Status:

Active

Tolerance:

$\pm$ 10%

Voltage Rating - DC:

630V

Operating Temperature:

-55°C ~ 125°C

Package / Case:

Axial

Height - Seated (Max):

-

Lead Spacing:

-

Ratings:

-

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8532.25.0060

Moisture Sensitivity Level (MSL):

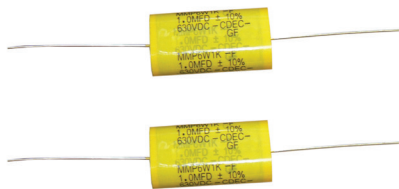
1 (Unlimited)

ECCN:

EAR99

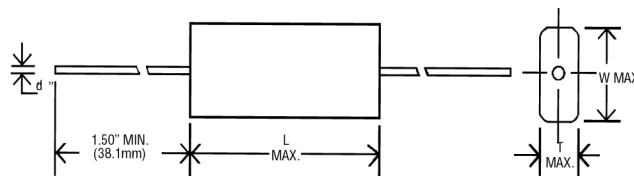
# Type MMP Polyester Film Capacitors

## 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.



## Specifications

|  |   |
|--|---|
| Capacitance Range                      | .01 to 10 $\mu$ F   |
| Capacitance Tolerance                  | $\pm$ 10% (K) standard, $\pm$ 5% (J) optional   |
| Rated Voltage                          | 100 to 630 Vdc  |
| Operating Temperature Range            | -55 $^{\circ}$ C to 125 $^{\circ}$ C* *Full-rated voltage at 85 $^{\circ}$ C—Derate linearly to 50%-rated voltage at 125 $^{\circ}$ C |
| Dielectric Strength                    | 175% (1 minute)   |
| Dissipation Factor                     | 1% Max. (25 $^{\circ}$ C, 1 kHz)  |
| Insulation Resistance                  | 5,000 $M\Omega$ x $\mu$ F, 10,000 $M\Omega$ Min   |
| Life Test                              | 1,000 Hours at 85 $^{\circ}$ C at 125% Rated Voltage  |
| <a href="#">Regulatory Information</a> |   |

## Ratings and Dimensions

| Cap.<br>( $\mu$ F) | Catalog<br>Number | T<br>Inches<br>(mm) | W<br>Inches<br>(mm) | L<br>Inches<br>(mm) | d<br>Inches<br>(mm) | dV/dt<br>V/ $\mu$ s |
|--------------------|-------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| <b>100 Vdc</b>     |                   |                     |                     |                     |                     |                     |
| 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                   |
| <b>250 Vdc</b>     |                   |                     |                     |                     |                     |                     |
| 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.<br>( $\mu$ F) | Catalog<br>Number | T<br>Inches<br>(mm) | W<br>Inches<br>(mm) | L<br>Inches<br>(mm) | d<br>Inches<br>(mm) | dV/dt<br>V/ $\mu$ s         |
|--------------------|-------------------|---------------------|---------------------|---------------------|---------------------|-----------------------------|
| <b>250 Vdc</b>     |                   |                     |                     |                     |                     |                             |
| 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  |
| <b>400 Vdc</b>     |                   |                     |                     |                     |                     |                             |
| 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 |
| <b>630 Vdc</b>     |                   |                     |                     |                     |                     |                             |
| 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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