

# Type DPPM Polypropylene Film Capacitors

**Foil/Metallized Hybrid, Radial Leded      Great for Compact Snubber Applications**



**Type DPPM** radial-leaded, film/foil polypropylene capacitors utilize series wound extended foil with floating metallized common film construction. **Type DPPM** offers excellent high frequency and high current capabilities and self-healing characteristics. With low inductance and high dV/dt characteristics, **Type DPPM** is ideal for snubber applications.

## Specifications

**Capacitance Range:** .001-.047  $\mu$ F

**Voltage Range:** 1000-2000 Vdc (450-500 Vac, 60 Hz)

**Capacitance Tolerance:**  $\pm$ 10% (K) standard  
 $\pm$ 5% (J),  $\pm$ 20% (M) optional

**Operating Temperature Range:** -40 °C to 105 °C\*

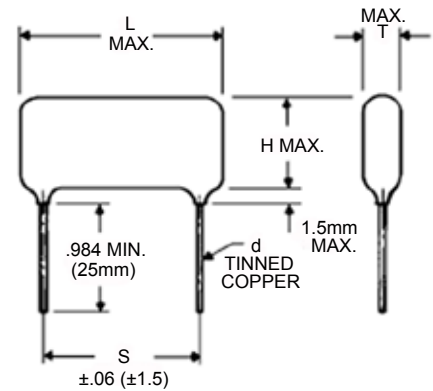
\*Full-rated voltage at 85 °C—Derate linearly to 50%-rated voltage at 105 °C

**Dielectric Strength:** 175% (1 minute)

**Dissipation Factor:** 0.1% Max. (25 °C, 1kHz)

**Insulation Resistance:** 400,000 M $\Omega$  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. $\mu$ F	Catalog Part Number	T Inches (mm)	H Inches (mm)	L Inches (mm)	S Inches (mm)	d Inches (mm)	dV/dt V/ $\mu$ s
<b>1000 Vdc (450 Vac)</b>							
.0010	DPPM10D1K-F	0.256 (6.5)	0.452 (11.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	1900
.0012	DPPM10D12K-F	0.256 (6.5)	0.452 (11.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	1900
.0015	DPPM10D15K-F	0.256 (6.5)	0.452 (11.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	1900
.0018	DPPM10D18K-F	0.256 (6.5)	0.452 (11.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	1900
.0022	DPPM10D22K-F	0.256 (6.5)	0.452 (11.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	1900
.0027	DPPM10D27K-F	0.275 (7.0)	0.472 (12.0)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	1900
.0033	DPPM10D33K-F	0.275 (7.0)	0.492 (12.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	1900
.0039	DPPM10D39K-F	0.275 (7.0)	0.511 (13.0)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	1900
.0047	DPPM10D47K-F	0.295 (7.5)	0.531 (13.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	1900
.0056	DPPM10D56K-F	0.314 (8.0)	0.551 (14.0)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	1900
.0068	DPPM10D68K-F	0.334 (8.5)	0.570 (14.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	1900
.0082	DPPM10D82K-F	0.334 (8.5)	0.629 (16.0)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	1900
.010	DPPM10S1K-F	0.374 (9.5)	0.649 (16.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	1900
.012	DPPM10S12K-F	0.393 (10.0)	0.688 (17.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	1900
.015	DPPM10S15K-F	0.374 (9.5)	0.669 (17.0)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	1300
.018	DPPM10S18K-F	0.393 (10.0)	0.688 (17.5)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	1300
.022	DPPM10S22K-F	0.433 (11.0)	0.728 (18.5)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	1300
.027	DPPM10S27K-F	0.472 (12.0)	0.767 (19.5)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	1300
.033	DPPM10S33K-F	0.511 (13.0)	0.807 (20.5)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	1300
.039	DPPM10S39K-F	0.551 (14.0)	0.846 (21.5)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	1300
.047	DPPM10S47K-F	0.590 (15.0)	0.885 (22.5)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	1300

# Type DPPM Polypropylene Film Capacitors

## Ratings

## RoHS Compliant

Cap. mF	Catalog Part Number	T Inches (mm)	H Inches (mm)	L Inches (mm)	S Inches (mm)	d Inches (mm)	dV/dt V/ $\mu$ s
<b>1200 Vdc (475 Vac)</b>							
.0010	DPPM12D1K-F	0.256 (6.5)	0.452 (11.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	2100
.0012	DPPM12D12K-F	0.256 (6.5)	0.452 (11.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	2100
.0015	DPPM12D15K-F	0.256 (6.5)	0.452 (11.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	2100
.0018	DPPM12D18K-F	0.275 (7.0)	0.472 (12.0)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	2100
.0022	DPPM12D22K-F	0.275 (7.0)	0.492 (12.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	2100
.0027	DPPM12D27K-F	0.275 (7.0)	0.492 (12.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	2100
.0033	DPPM12D33K-F	0.295 (7.5)	0.511 (13.0)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	2100
.0039	DPPM12D39K-F	0.295 (7.5)	0.531 (13.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	2100
.0047	DPPM12D47K-F	0.314 (8.0)	0.551 (14.0)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	2100
.0056	DPPM12D56K-F	0.334 (8.5)	0.570 (14.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	2100
.0068	DPPM12D68K-F	0.314 (8.0)	0.590 (15.0)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	1500
.0082	DPPM12D82K-F	0.334 (8.5)	0.610 (15.5)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	1500
.010	DPPM12S1K-F	0.354 (9.0)	0.629 (16.0)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	1500
.012	DPPM12S12K-F	0.374 (9.5)	0.669 (17.0)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	1500
.015	DPPM12S15K-F	0.413 (10.5)	0.708 (18.0)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	1500
.018	DPPM12S18K-F	0.433 (11.0)	0.748 (19.0)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	1500
.022	DPPM12S22K-F	0.472 (12.0)	0.787 (20.0)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	1500
.027	DPPM12S27K-F	0.511 (13.0)	0.826 (21.0)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	1500
.033	DPPM12S33K-F	0.551 (14.0)	0.866 (22.0)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	1500
<b>1600 Vdc (500 Vac)</b>							
.0010	DPPM16D1K-F	0.256 (6.5)	0.452 (11.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	3700
.0012	DPPM16D12K-F	0.256 (6.5)	0.452 (11.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	3700
.0015	DPPM16D15K-F	0.275 (7.0)	0.492 (12.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	3700
.0018	DPPM16D18K-F	0.295 (7.5)	0.531 (13.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	3700
.0022	DPPM16D22K-F	0.314 (8.0)	0.590 (15.0)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	3700
.0027	DPPM16D27K-F	0.334 (8.5)	0.610 (15.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	3700
.0033	DPPM16D33K-F	0.374 (9.5)	0.649 (16.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	3700
.0039	DPPM16D39K-F	0.393 (10.0)	0.688 (17.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	3700
.0047	DPPM16D47K-F	0.413 (10.5)	0.748 (19.0)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	3700
.0056	DPPM16D56K-F	0.393 (10.0)	0.708 (18.0)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	2800
.0068	DPPM16D68K-F	0.413 (10.5)	0.748 (19.0)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	2800
.0082	DPPM16D82K-F	0.433 (11.0)	0.787 (20.0)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	2800
.010	DPPM16S1K-F	0.472 (12.0)	0.866 (22.0)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	2800
.012	DPPM16S12K-F	0.531 (13.5)	0.905 (23.0)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	2800
.015	DPPM16S15K-F	0.590 (15.0)	0.964 (24.5)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	2800
.018	DPPM16S18K-F	0.649 (16.5)	1.023 (26.0)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	2800
.022	DPPM16S22K-F	0.708 (18.0)	1.082 (27.5)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	2800
<b>2000 Vdc (500 Vac)</b>							
.0010	DPPM20D1K-F	0.275 (7.0)	0.492 (12.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	3900
.0012	DPPM20D12K-F	0.295 (7.5)	0.511 (13.0)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	3900
.0015	DPPM20D15K-F	0.314 (8.0)	0.551 (14.0)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	3900
.0018	DPPM20D18K-F	0.334 (8.5)	0.610 (15.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	3900
.0022	DPPM20D22K-F	0.354 (9.0)	0.629 (16.0)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	3900
.0027	DPPM20D27K-F	0.374 (9.5)	0.649 (16.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	3900
.0033	DPPM20D33K-F	0.413 (10.5)	0.688 (17.5)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	3900
.0039	DPPM20D39K-F	0.433 (11.0)	0.748 (19.0)	0.984 (25.0)	0.826 (21.0)	0.032 (0.8)	3900
.0047	DPPM20D47K-F	0.393 (10.0)	0.748 (19.0)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	2900
.0056	DPPM20D56K-F	0.433 (11.0)	0.767 (19.5)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	2900
.0068	DPPM20D68K-F	0.472 (12.0)	0.807 (20.5)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	2900
.0082	DPPM20D82K-F	0.511 (13.0)	0.846 (21.5)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	2900
.010	DPPM20S1K-F	0.551 (14.0)	0.866 (22.0)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	2900
.012	DPPM20S12K-F	0.570 (14.5)	0.925 (23.5)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	2900
.015	DPPM20S15K-F	0.629 (16.0)	0.964 (24.5)	1.220 (31.0)	1.043 (26.5)	0.032 (0.8)	2900

## Type DPPM Polypropylene Film Capacitors

---

**Notice and Disclaimer:** All product drawings, descriptions, specifications, statements, information and data (collectively, the "Information") in this datasheet or other publication are subject to change. The customer is responsible for checking, confirming and verifying the extent to which the Information contained in this datasheet or other publication is applicable to an order at the time the order is placed. All Information given herein is believed to be accurate and reliable, but it is presented without any guarantee, warranty, representation or responsibility of any kind, expressed or implied. Statements of suitability for certain applications are based on the knowledge that the Cornell Dubilier company providing such statements ("Cornell Dubilier") has of operating conditions that such Cornell Dubilier company regards as typical for such applications, but are not intended to constitute any guarantee, warranty or representation regarding any such matter – and Cornell Dubilier specifically and expressly disclaims any guarantee, warranty or representation concerning the suitability for a specific customer application, use, storage, transportation, or operating environment. The Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by Cornell Dubilier with reference to the use of any Cornell Dubilier products is given gratis (unless otherwise specified by Cornell Dubilier), and Cornell Dubilier assumes no obligation or liability for the advice given or results obtained. Although Cornell Dubilier strives to apply the most stringent quality and safety standards regarding the design and manufacturing of its products, in light of the current state of the art, isolated component failures may still occur. Accordingly, customer applications which require a high degree of reliability or safety should employ suitable designs or other safeguards (such as installation of protective circuitry or redundancies or other appropriate protective measures) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or property damage. Although all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicated in such warnings, cautions and notes, or that other safety measures may not be required.