



**THE DATASHEET OF  
DPPM20D12K-F**



# Type DPPM Polypropylene Film Capacitors

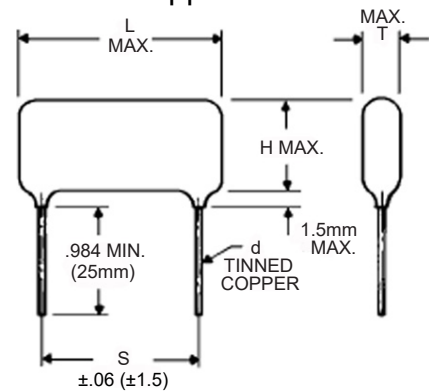
**Foil/Metalized Hybrid,  
Radial Leaded**

**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.



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



## Specifications

Capacitance Range	0.001 to 0.47 $\mu$ F
Capacitance Tolerance	$\pm$ 10% (K) standard, $\pm$ 5% (J) optional
Rated Voltage	1000-2000 Vdc (450-500 Vac, 60 Hz)
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	.1% Max. (25 °C, 1kHz)
Insulation Resistance	40,000 M $\Omega$ Min
Life Test	500 Hours at 85°C at 125% Rated Voltage
<a href="#">RoHS Compliant</a>	

## Ratings

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/μs
<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

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