

Type DPFF Polypropylene Film Capacitors

Film/Foil Radial Leads



High AC Current Pulse and Resonant Applications

Type DPFF radial-leaded, polypropylene film/foil capacitors feature single-section extended foil construction for 200 Vdc through 600 Vdc and series wound extended foil with a floating common metallized film for 800 Vdc through 1600 Vdc. Excellent temperature stability to 105 °C and low loss characteristics make Type DPFF ideal for high AC current and pulse applications.

Specifications

Voltage Range: 200-1600 Vdc (155-500 Vac)

Capacitance Range: .0010–.47 μF

Capacitance Tolerance: ±5% (J) standard
±10% (K) optional

Operating Temperature Range: –55 °C to 105 °C*

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

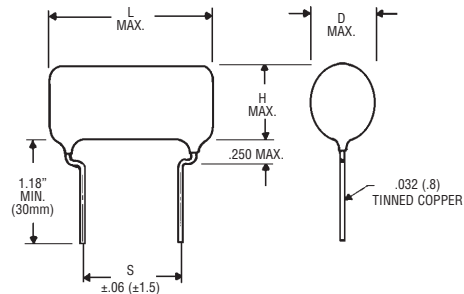
Dielectric Strength: 250% (800 Vdc and less)
200% (1200 and 1600 Vdc)

Dissipation Factor: .10% Max. (25 °C, 1kHz)

Insulation Resistance: 200,000 MΩ Min.

Life Test: 500 Hours at 85 °C at 125% Rated Voltage

Rated Volts	Pulse Capability			
	Body Length			
	.700-.750	.900-.950	1.250-1.300	1.650-1.700
	dV/dt—volts per microsecond, maximum			
200	4600	2400	1400	720
400	6000	3200	1800	840
600	8000	6600	2800	1200
800			6000	3200
1200			6800	3200
1600			11600	6000



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

Ratings and Dimensions

Normally Stocked

Cap. μF	Catalog Number	D Inches (mm)	H Inches (mm)	L Inches (mm)	S Inches (mm)
200/250 Vdc (155 Vac)					
.0120	DPFF2S12J	.26 (6.6)	.32 (8.1)	.70 (17.8)	.374 (9.5)
.0150	DPFF2S15J	.37 (9.4)	.37 (9.4)	.75 (19.1)	.374 (9.5)
.0150	DPFF2S15JS	.28 (7.1)	.34 (8.6)	.70 (17.8)	.374 (9.5)
.0180	DPFF2S18J	.29 (7.4)	.35 (8.9)	.70 (17.8)	.374 (9.5)
.0220	DPFF2S22J	.42 (10.7)	.42 (10.7)	.75 (19.1)	.374 (9.5)
.0220	DPFF2S22JS	.31 (7.9)	.37 (9.4)	.70 (17.8)	.374 (9.5)
.0270	DPFF2S27J	.33 (8.4)	.39 (9.9)	.70 (17.8)	.374 (9.5)
.0330	DPFF2S33J	.42 (10.7)	.42 (10.7)	.75 (19.1)	.374 (9.5)
.0330	DPFF2S33JS	.36 (9.1)	.42 (10.7)	.70 (17.8)	.374 (9.5)
.0390	DPFF2S39J	.32 (8.1)	.38 (9.7)	.90 (22.9)	.374 (9.5)
.0470	DPFF2S47J	.40 (10.2)	.40 (10.2)	.95 (24.1)	.374 (9.5)
.0470	DPFF2S47JS	.34 (8.6)	.40 (10.2)	.90 (22.9)	.374 (9.5)
.0560	DPFF2S56J	.37 (9.4)	.43 (10.9)	.90 (22.9)	.374 (9.5)
.0680	DPFF2S68J	.45 (11.4)	.45 (11.4)	.95 (24.1)	.374 (9.5)
.0680	DPFF2S68JS	.39 (9.9)	.45 (11.4)	.90 (22.9)	.374 (9.5)
.0820	DPFF2S82J	.36 (9.1)	.42 (10.7)	1.25 (31.8)	.374 (9.5)
.1000	DPFF2P1J	.45 (11.4)	.45 (11.4)	1.25 (31.8)	.720 (18.3)
.1000	DPFF2P1JS	.38 (9.7)	.44 (11.2)	1.25 (31.8)	.720 (18.3)
.1200	DPFF2P12J	.41 (10.4)	.47 (11.9)	1.25 (31.8)	.720 (18.3)
.1500	DPFF2P15J	.55 (14.0)	.55 (14.0)	1.30 (33.0)	.720 (18.3)
.1500	DPFF2P15JS	.44 (11.2)	.50 (12.7)	1.25 (31.8)	.720 (18.3)
.1800	DPFF2P18J	.47 (11.9)	.53 (13.5)	1.25 (31.8)	.720 (18.3)
.2200	DPFF2P22J	.62 (15.7)	.62 (15.7)	1.30 (33.0)	.720 (18.3)

Cap. μF	Catalog Number	D Inches (mm)	H Inches (mm)	L Inches (mm)	S Inches (mm)
.2200	DPFF2P22JS	.51 (13.0)	.57 (14.5)	1.25 (31.8)	.720 (18.3)
.2700	DPFF2P27J	.49 (12.4)	.55 (14.0)	1.65 (41.9)	1.095 (27.8)
.3300	DPFF2P33J	.65 (16.5)	.65 (16.5)	1.65 (41.9)	1.095 (27.8)
.3300	DPFF2P33JS	.53 (13.5)	.59 (15.0)	1.65 (41.9)	1.095 (27.8)
.3900	DPFF2P39J	.56 (14.2)	.62 (15.7)	1.65 (41.9)	1.095 (27.8)
.4700	DPFF2P47J	.75 (19.1)	.75 (19.1)	1.7 (43.2)	1.095 (27.8)
.4700	DPFF2P47JS	.60 (15.2)	.66 (16.8)	1.65 (41.9)	1.095 (27.8)
400 Vdc (200 Vac)					
.0039	DPFF4D39J	.34 (8.6)	.38 (9.7)	.70 (17.8)	.374 (9.5)
.0056	DPFF4D47J	.34 (8.6)	.38 (9.7)	.70 (17.8)	.374 (9.5)
.0056	DPFF4D56J	.36 (9.1)	.40 (10.2)	.70 (17.8)	.374 (9.5)
.0068	DPFF4D68J	.29 (7.4)	.35 (8.9)	.70 (17.8)	.374 (9.5)
.0082	DPFF4D82J	.30 (7.6)	.36 (9.1)	.70 (17.8)	.374 (9.5)
.0100	DPFF4S1J	.30 (7.6)	.36 (9.1)	.70 (17.8)	.374 (9.5)
.0120	DPFF4S12J	.32 (8.1)	.38 (9.7)	.70 (17.8)	.374 (9.5)
.0150	DPFF4S15J	.45 (11.4)	.45 (11.4)	.75 (19.1)	.374 (9.5)
.0150	DPFF4S15JS	.34 (8.6)	.40 (10.2)	.70 (17.8)	.374 (9.5)
.0180	DPFF4S18J	.31 (7.9)	.37 (9.4)	.90 (22.9)	.374 (9.5)
.0220	DPFF4S22J	.33 (8.4)	.39 (9.9)	.90 (22.9)	.374 (9.5)
.0270	DPFF4S27J	.36 (9.1)	.42 (10.7)	.90 (22.9)	.374 (9.5)
.0330	DPFF4S33J	.50 (12.7)	.50 (12.7)	.95 (24.1)	.374 (9.5)
.0330	DPFF4S33JS	.38 (9.7)	.44 (11.2)	.90 (22.9)	.374 (9.5)
.0390	DPFF4S39J	.35 (8.9)	.41 (10.4)	1.25 (31.8)	.720 (18.3)

Type DPF Polypropylene Film Capacitors

Cap. μ F	Catalog Number	D Inches (mm)	H Inches (mm)	L Inches (mm)	S Inches (mm)
.0470	DPFF4S47J	.37 (9.4)	.43 (10.9)	1.25 (31.8)	.720 (18.3)
.0560	DPFF4S56J	.39 (9.9)	.45 (11.4)	1.25 (31.8)	.720 (18.3)
.0680	DPFF4S68J	.42 (10.7)	.48 (12.2)	1.25 (31.8)	.720 (18.3)
.0820	DPFF4S82J	.45 (11.4)	.51 (13.0)	1.25 (31.8)	.720 (18.3)
.1000	DPFF4P1J	.48 (12.2)	.54 (13.7)	1.25 (31.8)	.720 (18.3)
.1200	DPFF4P12J	.52 (13.2)	.58 (14.7)	1.25 (31.8)	.720 (18.3)
.1500	DPFF4P15J	.65 (16.5)	.65 (16.5)	1.30 (33.0)	.720 (18.3)
.1500	DPFF4P15JS	.56 (14.2)	.62 (15.7)	1.25 (31.8)	.720 (18.3)
.1800	DPFF4P18J	.54 (13.7)	.60 (15.2)	1.65 (41.9)	1.095 (27.8)
.2200	DPFF4P22J	.70 (17.8)	.70 (17.8)	1.70 (43.2)	1.095 (27.8)
.2200	DPFF4P22JS	.58 (14.7)	.64 (16.3)	1.65 (41.9)	1.095 (27.8)
.2700	DPFF4P27J	.63 (16.0)	.69 (17.5)	1.65 (41.9)	1.095 (27.8)
.3300	DPFF4P33J	.80 (20.3)	.80 (20.3)	1.70 (43.2)	1.095 (27.8)
.3300	DPFF4P33JS	.70 (17.8)	.76 (19.3)	1.65 (41.9)	1.095 (27.8)
.3900	DPFF4P39J	.75 (19.1)	.81 (20.6)	1.65 (41.9)	1.095 (27.8)
.4700	DPFF4P47J	.90 (22.9)	.90 (22.9)	1.70 (43.2)	1.095 (27.8)
.4700	DPFF4P47JS	.82 (20.8)	.88 (22.4)	1.65 (41.9)	1.095 (27.8)
600/630 Vdc (200 Vac)					
.0010	DPFF6D1J	.35 (8.9)	.39 (9.9)	.70 (17.8)	.374 (9.5)
.0012	DPFF6D12J	.36 (9.1)	.40 (10.2)	.70 (17.8)	.374 (9.5)
.0015	DPFF6D15J	.40 (10.2)	.40 (10.2)	.75 (19.1)	.374 (9.5)
.0015	DPFF6D15JS	.32 (8.1)	.36 (9.1)	.70 (17.8)	.374 (9.5)
.0018	DPFF6D18J	.34 (8.6)	.38 (9.7)	.70 (17.8)	.374 (9.5)
.0022	DPFF6D22J	.33 (8.4)	.37 (9.4)	.70 (17.8)	.374 (9.5)
.0027	DPFF6D27J	.35 (8.9)	.39 (9.9)	.70 (17.8)	.374 (9.5)
.0033	DPFF6D33J	.40 (10.2)	.40 (10.2)	.75 (19.1)	.374 (9.5)
.0033	DPFF6D33JS	.32 (8.1)	.36 (9.1)	.70 (17.8)	.374 (9.5)
.0039	DPFF6D39J	.34 (8.6)	.38 (9.7)	.70 (17.8)	.374 (9.5)
.0047	DPFF6D47J	.45 (11.4)	.45 (11.4)	.75 (19.1)	.374 (9.5)
.0047	DPFF6D47JS	.34 (8.6)	.38 (9.7)	.70 (17.8)	.374 (9.5)
.0056	DPFF6D56J	.36 (9.1)	.40 (10.2)	.70 (17.8)	.374 (9.5)
.0068	DPFF6D68J	.45 (11.4)	.45 (11.4)	.75 (19.1)	.374 (9.5)
.0068	DPFF6D68JS	.38 (9.7)	.42 (10.7)	.70 (17.8)	.374 (9.5)
.0082	DPFF6D82J	.34 (8.6)	.38 (9.7)	.90 (22.9)	.374 (9.5)
.0100	DPFF6S1J	.45 (11.4)	.45 (11.4)	.95 (24.1)	.374 (9.5)
.0100	DPFF6S1JS	.36 (9.1)	.40 (10.2)	.90 (22.9)	.374 (9.5)
.0120	DPFF6S12J	.38 (9.7)	.42 (10.7)	.90 (22.9)	.374 (9.5)
.0150	DPFF6S15J	.50 (12.7)	.50 (12.7)	.95 (24.1)	.374 (9.5)
.0150	DPFF6S15JS	.42 (10.7)	.46 (11.7)	.90 (22.9)	.374 (9.5)
.0180	DPFF6S18J	.44 (11.2)	.48 (12.2)	.90 (22.9)	.374 (9.5)
.0220	DPFF6S22J	.55 (14.0)	.55 (14.0)	.95 (24.1)	.374 (9.5)
.0220	DPFF6S22JS	.48 (12.2)	.52 (13.2)	.90 (22.9)	.374 (9.5)
.0270	DPFF6S27J	.55 (14.0)	.55 (14.0)	1.30 (33.0)	.720 (18.3)
.0270	DPFF6S27JS	.43 (10.9)	.47 (11.9)	1.25 (31.8)	.720 (18.3)
.0330	DPFF6S33J	.46 (11.7)	.50 (12.7)	1.25 (31.8)	.720 (18.3)
.0390	DPFF6S39J	.49 (12.4)	.53 (13.5)	1.25 (31.8)	.720 (18.3)
.0470	DPFF6S47J	.52 (13.2)	.56 (14.2)	1.25 (31.8)	.720 (18.3)
.0560	DPFF6S56J	.56 (14.2)	.60 (15.2)	1.25 (31.8)	.720 (18.3)
.0680	DPFF6S68J	.65 (16.5)	.65 (16.5)	1.30 (33.0)	.720 (18.3)
.0680	DPFF6S68JS	.60 (15.2)	.64 (16.3)	1.25 (31.8)	.720 (18.3)
.0820	DPFF6S82J	.65 (16.5)	.69 (17.5)	1.25 (31.8)	.720 (18.3)
.1000	DPFF6P1J	.75 (19.0)	.75 (19.1)	1.30 (33.0)	.720 (18.3)
.1000	DPFF6P1JS	.71 (18.0)	.75 (19.1)	1.25 (31.8)	.720 (18.3)
.1200	DPFF6P12J	.65 (16.5)	.69 (17.5)	1.65 (41.9)	1.095 (27.8)
.1500	DPFF6P15J	.75 (19.0)	.75 (19.1)	1.70 (43.2)	1.095 (27.8)
.1500	DPFF6P15JS	.71 (18.0)	.75 (19.1)	1.65 (41.9)	1.095 (27.8)
.1800	DPFF6P18J	.77 (19.6)	.81 (20.6)	1.65 (41.9)	1.095 (27.8)
.2200	DPFF6P22J	.85 (21.6)	.85 (21.6)	1.70 (43.2)	1.095 (27.8)
.2200	DPFF6P22JS	.83 (21.1)	.85 (21.6)	1.65 (41.9)	1.095 (27.8)
800 Vdc (450)					
.0056	DPFF8D56J	.50 (12.7)	.50 (12.7)	1.30 (33.0)	.720 (18.3)
.0056	DPFF8D56JS	.28 (7.1)	.34 (8.6)	1.25 (31.8)	.720 (18.3)
.0068	DPFF8D68J	.29 (7.4)	.35 (8.9)	1.25 (31.8)	.720 (18.3)
.0082	DPFF8D82J	.31 (7.9)	.37 (9.4)	1.25 (31.8)	.720 (18.3)
.0100	DPFF8S1J	.50 (12.7)	.50 (12.7)	1.30 (33.0)	.720 (18.3)

Cap. μ F	Catalog Number	D Inches (mm)	H Inches (mm)	L Inches (mm)	S Inches (mm)
.0100	DPFF8S1JS	.33 (8.4)	.39 (9.9)	1.25 (31.8)	.720 (18.3)
.0120	DPFF8S12J	.55 (14.0)	.55 (14.0)	1.30 (33.0)	.720 (18.3)
.0120	DPFF8S12JS	.35 (8.9)	.41 (10.4)	1.25 (31.8)	.720 (18.3)
.0150	DPFF8S15J	.55 (14.0)	.55 (14.0)	1.30 (33.0)	.720 (18.3)
.0150	DPFF8S15JS	.38 (9.7)	.44 (11.2)	1.25 (31.8)	.720 (18.3)
.0180	DPFF8S18J	.41 (10.4)	.47 (11.9)	1.25 (31.8)	.720 (18.3)
.0220	DPFF8S22J	.60 (15.2)	.60 (15.2)	1.30 (33.0)	.720 (18.3)
.0220	DPFF8S22JS	.44 (11.2)	.50 (12.7)	1.25 (31.8)	.720 (18.3)
.0270	DPFF8S27J	.47 (11.9)	.53 (13.5)	1.25 (31.8)	.720 (18.3)
.0330	DPFF8S33J	.51 (13.0)	.70 (17.8)	1.30 (33.0)	.720 (18.3)
.0330	DPFF8S33JS	.51 (13.0)	.57 (14.5)	1.25 (31.8)	.720 (18.3)
.0390	DPFF8S39J	.47 (11.9)	.53 (13.5)	1.65 (41.9)	1.095 (27.8)
.0470	DPFF8S47J	.50 (12.7)	.56 (14.2)	1.65 (41.9)	1.095 (27.8)
.0560	DPFF8S56J	.53 (13.5)	.59 (15.0)	1.65 (41.9)	1.095 (27.8)
.0680	DPFF8S68J	.80 (20.3)	.80 (20.3)	1.70 (43.2)	1.095 (27.8)
.0680	DPFF8S68JS	.58 (14.7)	.64 (16.3)	1.65 (41.9)	1.095 (27.8)
.0820	DPFF8S82J	.62 (15.7)	.68 (17.3)	1.65 (41.9)	1.095 (27.8)
.1000	DPFF8P1J	.90 (22.9)	.90 (22.9)	1.70 (43.2)	1.095 (27.8)
.1000	DPFF8P1JS	.67 (17.0)	.73 (18.5)	1.65 (41.9)	1.095 (27.8)
1200 Vdc (475 Vac)					
.0027	DPFF12D27J	.38 (9.7)	.42 (10.7)	1.25 (31.8)	.720 (18.3)
.0033	DPFF12D33J	.32 (8.1)	.38 (9.7)	1.25 (31.8)	.720 (18.3)
.0039	DPFF12D39J	.34 (8.6)	.40 (10.2)	1.25 (31.8)	.720 (18.3)
.0047	DPFF12D47J	.36 (9.1)	.42 (10.7)	1.25 (31.8)	.720 (18.3)
.0056	DPFF12D56J	.38 (9.7)	.44 (11.2)	1.25 (31.8)	.720 (18.3)
.0068	DPFF12D68J	.41 (10.4)	.47 (11.9)	1.25 (31.8)	.720 (18.3)
.0082	DPFF12D82J	.44 (11.2)	.50 (12.7)	1.25 (31.8)	.720 (18.3)
.0100	DPFF12S1J	.47 (11.9)	.53 (13.5)	1.25 (31.8)	.720 (18.3)
.0120	DPFF12S12J	.51 (13.0)	.57 (14.5)	1.25 (31.8)	.720 (18.3)
.0150	DPFF12S15J	.65 (16.5)	.65 (16.5)	1.30 (33.0)	.720 (18.3)
.0150	DPFF12S15JS	.55 (14.0)	.61 (15.5)	1.25 (31.8)	.720 (18.3)
.0180	DPFF12S18J	.50 (12.7)	.56 (14.2)	1.65 (41.9)	1.095 (27.8)
.0220	DPFF12S22J	.54 (13.7)	.60 (15.2)	1.65 (41.9)	1.095 (27.8)
.0270	DPFF12S27J	.59 (15.0)	.65 (16.5)	1.65 (41.9)	1.095 (27.8)
.0330	DPFF12S33J	.64 (16.3)	.70 (17.8)	1.65 (41.9)	1.095 (27.8)
.0390	DPFF12S39J	.85 (21.6)	.85 (21.6)	1.70 (43.2)	1.095 (27.8)
.0390	DPFF12S39JS	.68 (17.3)	.74 (18.8)	1.65 (41.9)	1.095 (27.8)
.0470	DPFF12S47J	.74 (18.8)	.80 (20.3)	1.65 (41.9)	1.095 (27.8)
1600 Vdc (500 Vac)					
.0010	DPFF16D1J	.29 (7.4)	.33 (8.4)	1.25 (31.8)	.720 (18.3)
.0012	DPFF16D12J	.30 (7.6)	.34 (8.6)	1.25 (31.8)	.720 (18.3)
.0015	DPFF16D15J	.32 (8.1)	.36 (9.1)	1.25 (31.8)	.720 (18.3)
.0018	DPFF16D18J	.34 (8.6)	.38 (9.7)	1.25 (31.8)	.720 (18.3)
.0022	DPFF16D22J	.50 (12.7)	.50 (12.7)	1.30 (33.0)	.720 (18.3)
.0022	DPFF16D22JS	.35 (8.9)	.39 (9.9)	1.25 (31.8)	.720 (18.3)
.0027	DPFF16D27J	.38 (9.7)	.42 (10.7)	1.25 (31.8)	.720 (18.3)
.0033	DPFF16D33J	.55 (14.0)	.55 (14.0)	1.30 (33.0)	.720 (18.3)
.0033	DPFF16D33JS	.40 (10.2)	.44 (11.2)	1.25 (31.8)	.720 (18.3)
.0039	DPFF16D39J	.43 (10.9)	.47 (11.9)	1.25 (31.8)	.720 (18.3)
.0047	DPFF16D47J	.60 (15.2)	.60 (15.2)	1.30 (33.0)	.720 (18.3)
.0047	DPFF16D47JS	.46 (11.7)	.50 (12.7)	1.25 (31.8)	.720 (18.3)
.0056	DPFF16D56J	.49 (12.4)	.53 (13.5)	1.25 (31.8)	.720 (18.3)
.0068	DPFF16D68J	.65 (16.5)	.65 (16.5)	1.30 (33.0)	.720 (18.3)
.0068	DPFF16D68JS	.52 (13.2)	.56 (14.2)	1.25 (31.8)	.720 (18.3)
.0082	DPFF16D82J	.56 (14.2)	.60 (15.2)	1.25 (31.8)	.720 (18.3)
.0100	DPFF16S1J	.70 (17.8)	.70 (17.8)	1.30 (33.0)	.720 (18.3)
.0100	DPFF16S1JS	.61 (15.5)	.65 (16.5)	1.25 (31.8)	.720 (18.3)
.0120	DPFF16S12J	.54 (13.7)	.58 (14.7)	1.65 (41.9)	1.095 (27.8)
.0150	DPFF16S15J	.75 (19.1)	.75 (19.1)	1.70 (43.2)	1.095 (27.8)
.0150	DPFF16S15JS	.59 (15.0)	.63 (16.0)	1.65 (41.9)	1.095 (27.8)
.0180	DPFF16S18J	.63 (16.0)	.67 (17.0)	1.65 (41.9)	1.095 (27.8)
.0220	DPFF16S22J	.69 (17.5)	.73 (18.5)	1.65 (41.9)	1.095 (27.8)
.0270	DPFF16S27J	.74 (18.8)	.78 (19.8)	1.65 (41.9)	1.095 (27.8)
.0330	DPFF16S33J	.95 (24.1)	.95 (24.1)	1.70 (43.2)	1.095 (27.8)
.0330	DPFF16S33JS	.81 (20.6)	.85 (21.6)	1.65 (41.9)	1.095 (27.8)