

# Type DPFF High AC Current Polypropylene Film Capacitors

## High Voltage Single and Series Section Film/Foil Polypropylene Capacitors

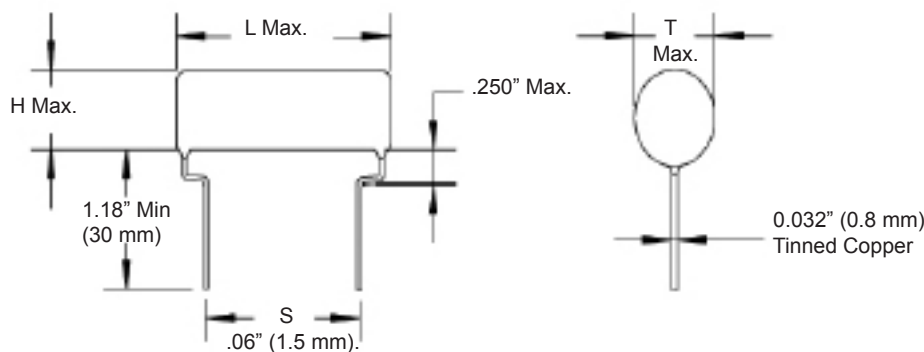


Type DPFF radial leaded polypropylene film/foil capacitors feature single and series section construction. Part numbers with the “S” suffix have extended aluminum foil with a floating metallized film. Excellent temperature stability to 105 °C and low loss characteristics, make Type DPFF ideal for high AC current and pulse applications.

### Highlights

- High dv/dt
- High AC current
- Good for pulse applications
- Low DF

### Outline Drawing



NOTE: Other capacitance values, sizes and performance specifications are available. Please contact CDE.

### Specifications

### RoHS Compliant

- Capacitance Range:** 0.001 to 0.47  $\mu$ F
- Voltage Range:** 200 to 1600 Vdc (155 to 500 Vac 60 Hz)
- Capacitance Tolerance:**  $\pm$ 10% standard,  $\pm$ 5% optional
- Operating Temperature Range:** -55 °C to +105 °C (derate linearly to 50% rated voltage at +105 °C)
- Dielectric Strength:** 250% ( $\leq$ 800 Vdc ) 200% (1200 and 1600 Vdc) for 1 minute
- Dissipation Factor:** 0.10% Max. (+25 °C, 1 KHz)
- Insulation Resistance:** 50,000 M $\Omega$ · $\mu$ F, 100,000 M $\Omega$  Min.
- Life Test:** 500 hr @ 85 °C @ 125% rated voltage
- Pulse Capability:**



Complies with the EU Directive 2002/95/EC requirement restricting the use of Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent chromium (Cr(VI)), PolyBrominated Biphenyls (PBB) and PolyBrominated Diphenyl Ethers (PBDE).

Rated Volts	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

# Type DPF High AC Current Polypropylene Film Capacitors

## Ratings

## RoHS Compliant

Cap ( $\mu$ F)	Catalog Part Number	T Max. Inches (mm)	H Max. Inches (mm)	L Max. Inches (mm)	S $\pm 0.06$ ( $\pm 1.5$ ) Inches (mm)
<b>200/250 Vdc (155 Vac 60 Hz)</b>					
.0120	DPFF2S12J-F	0.37 (9.4)	0.37 (9.4)	0.75 (19.1)	0.374 (9.5)
.0150	DPFF2S15J-F	0.37 (9.4)	0.37 (9.4)	0.75 (19.1)	0.374 (9.5)
.0150	DPFF2S15JS-F	0.28 (7.1)	0.34 (8.6)	0.70 (17.8)	0.374 (9.5)
.0180	DPFF2S18J-F	0.37 (9.4)	0.37 (9.4)	0.75 (19.1)	0.374 (9.5)
.0220	DPFF2S22J-F	0.37 (9.4)	0.37 (9.4)	0.75 (19.1)	0.374 (9.5)
.0220	DPFF2S22JS-F	0.31 (7.9)	0.37 (9.4)	0.70 (17.8)	0.374 (9.5)
.0270	DPFF2S27J-F	0.42 (10.7)	0.42 (10.7)	0.75 (19.1)	0.374 (9.5)
.0330	DPFF2S33J-F	0.42 (10.7)	0.42 (10.7)	0.75 (19.1)	0.374 (9.5)
.0330	DPFF2S33JS-F	0.36 (9.1)	0.42 (10.7)	0.70 (17.8)	0.374 (9.5)
.0390	DPFF2S39J-F	0.40 (10.2)	0.40 (10.2)	0.95 (24.1)	0.374 (9.5)
.0470	DPFF2S47J-F	0.40 (10.2)	0.40 (10.2)	0.95 (24.1)	0.374 (9.5)
.0470	DPFF2S47JS-F	0.34 (8.6)	0.40 (10.2)	0.90 (22.9)	0.374 (9.5)
.0560	DPFF2S56J-F	0.45 (11.4)	0.45 (11.4)	0.95 (24.1)	0.374 (9.5)
.0680	DPFF2S68J-F	0.45 (11.4)	0.45 (11.4)	0.95 (24.1)	0.374 (9.5)
.0680	DPFF2S68JS-F	0.39 (9.9)	0.45 (11.4)	0.90 (22.9)	0.374 (9.5)
.0820	DPFF2S82J-F	0.45 (11.4)	0.45 (11.4)	1.30 (33.0)	0.72 (18.3)
.1000	DPFF2P1J-F	0.45 (11.4)	0.45 (11.4)	1.25 (31.8)	0.72 (18.3)
.1000	DPFF2P1JS-F	0.38 (9.7)	0.44 (11.2)	1.25 (31.8)	0.72 (18.3)
.1200	DPFF2P12J-F	0.55 (14.0)	0.55 (14.0)	1.30 (33.0)	0.72 (18.3)
.1500	DPFF2P15J-F	0.55 (14.0)	0.55 (14.0)	1.30 (33.0)	0.72 (18.3)
.1500	DPFF2P15JS-F	0.44 (11.2)	0.50 (12.7)	1.25 (31.8)	0.72 (18.3)
.1800	DPFF2P18J-F	0.62 (15.7)	0.62 (15.7)	1.30 (33.0)	0.72 (18.3)
.2200	DPFF2P22J-F	0.62 (15.7)	0.62 (15.7)	1.30 (33.0)	0.72 (18.3)
.2200	DPFF2P22JS-F	0.51 (13.0)	0.57 (14.5)	1.25 (31.8)	0.72 (18.3)
.2700	DPFF2P27J-F	0.65 (16.5)	0.65 (14.5)	1.70 (43.2)	1.095 (27.8)
.3300	DPFF2P33J-F	0.65 (16.5)	0.65 (14.5)	1.65 (41.9)	1.095 (27.8)
.3300	DPFF2P33JS-F	0.53 (13.5)	0.59 (15.0)	1.65 (41.9)	1.095 (27.8)
.3900	DPFF2P39J-F	0.75 (19.1)	0.75 (19.1)	1.70 (43.2)	1.095 (27.8)
.4700	DPFF2P47J-F	0.75 (19.1)	0.75 (19.1)	1.70 (43.2)	1.095 (27.8)
.4700	DPFF2P47JS-F	0.6 (15.2)	0.66 (168)	1.65 (41.9)	1.095 (27.8)
<b>400 Vdc (200 Vac 60 Hz)</b>					
.0039	DPFF4D39J-F	0.40 (10.2)	0.40 (10.2)	0.75 (19.1)	0.374 (9.5)
.0047	DPFF4D47J-F	0.40 (10.2)	0.40 (10.2)	0.75 (19.1)	0.374 (9.5)
.0056	DPFF4D56J-F	0.40 (10.2)	0.40 (10.2)	0.75 (19.1)	0.374 (9.5)
.0068	DPFF4D68J-F	0.40 (10.2)	0.40 (10.2)	0.75 (19.1)	0.374 (9.5)
.0082	DPFF4D82J-F	0.40 (10.2)	0.40 (10.2)	0.75 (19.1)	0.374 (9.5)
.0100	DPFF4S1J-F	0.40 (10.2)	0.40 (10.2)	0.75 (19.1)	0.374 (9.5)
.0120	DPFF4S12J-F	0.45 (11.4)	0.45 (11.4)	0.75 (19.1)	0.374 (9.5)
.0150	DPFF4S15J-F	0.45 (11.4)	0.45 (11.4)	0.75 (19.1)	0.374 (9.5)
.0150	DPFF4S15JS-F	0.34 (8.6)	0.40 (10.2)	0.70 (17.8)	0.374 (9.5)
.0180	DPFF4S18J-F	0.45 (11.4)	0.45 (11.4)	0.95 (24.1)	0.374 (9.5)
.0220	DPFF4S22J-F	0.45 (11.4)	0.45 (11.4)	0.95 (24.1)	0.374 (9.5)
.0270	DPFF4S27J-F	0.50 (12.7)	0.50 (12.7)	0.95 (24.1)	0.374 (9.5)
.0330	DPFF4S33J-F	0.50 (12.7)	0.50 (12.7)	0.95 (24.1)	0.374 (9.5)
.0330	DPFF4S33JS-F	0.38 (9.7)	0.44 (11.2)	0.90 (22.9)	0.374 (9.5)
.0390	DPFF4S39J-F	0.50 (12.7)	0.50 (12.7)	1.30 (33.0)	0.72 (18.3)

Cap ( $\mu$ F)	Catalog Part Number	T Max. Inches (mm)	H Max. Inches (mm)	L Max. Inches (mm)	S $\pm 0.06$ ( $\pm 1.5$ ) Inches (mm)
<b>400 Vdc (200 Vac 60 Hz)</b>					
.0470	DPFF4S47J-F	0.50 (12.7)	0.50 (12.7)	1.30 (33.0)	0.72 (18.3)
.0560	DPFF4S56J-F	0.55 (14.0)	0.55 (14.0)	1.30 (33.0)	0.72 (18.3)
.0680	DPFF4S68J-F	0.55 (14.0)	0.55 (14.0)	1.30 (33.0)	0.72 (18.3)
.0820	DPFF4S82J-F	0.60 (15.2)	0.60 (15.2)	1.30 (33.0)	0.72 (18.3)
.1000	DPFF4P1J-F	0.60 (15.2)	0.60 (15.2)	1.30 (33.0)	0.72 (18.3)
.1200	DPFF4P12J-F	0.65 (16.5)	0.65 (16.5)	1.30 (33.0)	0.72 (18.3)
.1500	DPFF4P15J-F	0.65 (16.5)	0.65 (16.5)	1.30 (33.0)	0.72 (18.3)
.1500	DPFF4P15JS-F	0.56 (14.2)	0.62 (15.7)	1.25 (31.8)	0.72 (18.3)
.1800	DPFF4P18J-F	0.70 (17.8)	0.70 (17.8)	1.70 (43.2)	1.095 (27.8)
.2200	DPFF4P22J-F	0.70 (17.8)	0.70 (17.8)	1.70 (43.2)	1.095 (27.8)
.2200	DPFF4P22JS-F	0.58 (14.7)	0.64 (16.3)	1.65 (41.9)	1.095 (27.8)
.2700	DPFF4P27J-F	0.80 (20.3)	0.80 (20.3)	1.70 (43.2)	1.095 (27.8)
.3300	DPFF4P33J-F	0.80 (20.3)	0.80 (20.3)	1.70 (43.2)	1.095 (27.8)
.3300	DPFF4P33JS-F	0.70 (17.8)	0.76 (19.3)	1.65 (41.9)	1.095 (27.8)
.3900	DPFF4P39J-F	0.90 (22.9)	0.90 (22.9)	1.70 (43.2)	1.095 (27.8)
.4700	DPFF4P47J-F	0.90 (22.9)	0.90 (22.9)	1.70 (43.2)	1.095 (27.8)
.4700	DPFF4P47JS-F	0.82 (20.8)	0.88 (22.4)	1.65 (41.9)	1.095 (27.8)
<b>600/630 Vdc (200 Vac 60 Hz)</b>					
.0010	DPFF6D1J-F	0.40 (10.2)	0.40 (10.2)	0.75 (19.1)	0.374 (9.5)
.0012	DPFF6D12J-F	0.40 (10.2)	0.40 (10.2)	0.75 (19.1)	0.374 (9.5)
.0015	DPFF6D15J-F	0.40 (10.2)	0.40 (10.2)	0.75 (19.1)	0.374 (9.5)
.0015	DPFF6D15JS-F	0.32 (8.1)	0.36 (9.1)	0.70 (17.8)	0.374 (9.5)
.0018	DPFF6D18J-F	0.40 (10.2)	0.40 (10.2)	0.75 (19.1)	0.374 (9.5)
.0022	DPFF6D22J-F	0.40 (10.2)	0.40 (10.2)	0.75 (19.1)	0.374 (9.5)
.0027	DPFF6D27J-F	0.40 (10.2)	0.40 (10.2)	0.75 (19.1)	0.374 (9.5)
.0033	DPFF6D33J-F	0.40 (10.2)	0.40 (10.2)	0.75 (19.1)	0.374 (9.5)
.0033	DPFF6D33JS-F	0.32 (8.1)	0.36 (9.1)	0.70 (17.8)	0.374 (9.5)
.0039	DPFF6D39J-F	0.45 (11.4)	0.45 (11.4)	0.75 (19.1)	0.374 (9.5)
.0047	DPFF6D47J-F	0.45 (11.4)	0.45 (11.4)	0.75 (19.1)	0.374 (9.5)
.0047	DPFF6D47JS-F	0.34 (8.6)	0.38 (9.7)	0.70 (17.8)	0.374 (9.5)
.0056	DPFF6D56J-F	0.45 (11.4)	0.45 (11.4)	0.75 (19.1)	0.374 (9.5)
.0068	DPFF6D68J-F	0.45 (11.4)	0.45 (11.4)	0.75 (19.1)	0.374 (9.5)
.0068	DPFF6D68JS-F	0.38 (9.7)	0.42 (10.7)	0.70 (17.8)	0.374 (9.5)
.0082	DPFF6D82J-F	0.45 (11.4)	0.45 (11.4)	0.95 (24.1)	0.374 (9.5)
.0100	DPFF6S1J-F	0.45 (11.4)	0.45 (11.4)	0.95 (24.1)	0.374 (9.5)
.0100	DPFF6S1JS-F	0.36 (8.1)	0.40 (10.2)	0.90 (22.9)	0.374 (9.5)
.0120	DPFF6S12J-F	0.50 (12.7)	0.50 (12.7)	0.95 (24.1)	0.374 (9.5)
.0150	DPFF6S15J-F	0.50 (12.7)	0.50 (12.7)	0.95 (24.1)	0.374 (9.5)
.0150	DPFF6S15JS-F	0.42 (10.7)	0.46 (11.7)	0.90 (22.9)	0.374 (9.5)
.0180	DPFF6S18J-F	0.55 (14.0)	0.55 (14.0)	0.95 (24.1)	0.374 (9.5)
.0220	DPFF6S22J-F	0.55 (14.0)	0.55 (14.0)	0.95 (24.1)	0.374 (9.5)
.0220	DPFF6S22JS-F	0.48 (12.2)	0.52 (13.2)	0.90 (22.9)	0.374 (9.5)
.0270	DPFF6S27J-F	0.55 (14.0)	0.55 (14.0)	1.30 (33.0)	0.72 (18.3)
.0270	DPFF6S27JS-F	0.43 (10.9)	0.47 (11.9)	1.25 (31.8)	0.72 (18.3)
.0330	DPFF6S33J-F	0.55 (14.0)	0.55 (14.0)	1.30 (33.0)	0.72 (18.3)
.0390	DPFF6S39J-F	0.60 (15.2)	0.60 (15.2)	1.30 (33.0)	0.72 (18.3)

# Type DPFF High AC Current Polypropylene Film Capacitors

**RoHS Compliant**

Cap ( $\mu$ F)	Catalog Part Number	T Max. Inches (mm)	H Max. Inches (mm)	L Max. Inches (mm)	S $\pm 0.06$ ( $\pm 1.5$ ) Inches (mm)
<b>600/630 Vdc (200 Vac 60 Hz)</b>					
.0470	DPFF6S47J-F	0.60 (15.2)	0.60 (15.2)	1.30 (33.0)	0.72 (18.3)
.0560	DPFF6S56J-F	0.65 (16.5)	0.65 (16.5)	1.30 (33.0)	0.72 (18.3)
.0680	DPFF6S68J-F	0.65 (16.5)	0.65 (16.5)	1.30 (33.0)	0.72 (18.3)
.0680	DPFF6S68JS-F	0.60 (15.2)	0.64 (16.3)	1.25 (31.8)	0.72 (18.3)
.0820	DPFF6S82J-F	0.75 (16.0)	0.75 (16.0)	1.30 (33.0)	0.72 (18.3)
.1000	DPFF6P1J-F	0.75 (16.0)	0.75 (16.0)	1.30 (33.0)	0.72 (18.3)
.1000	DPFF6P1JS-F	0.71 (18.0)	0.75 (16.0)	1.25 (31.8)	0.72 (18.3)
.1200	DPFF6P12J-F	0.75 (19.0)	0.75 (19.0)	1.70 (43.2)	1.095 (27.8)
.1500	DPFF6P15J-F	0.75 (19.0)	0.75 (19.0)	1.70 (43.2)	1.095 (27.8)
.1500	DPFF6P15JS-F	0.71 (18.0)	0.75 (19.0)	1.65 (41.9)	1.095 (27.8)
.1800	DPFF6P18J-F	0.85 (21.6)	0.85 (21.6)	1.70 (43.2)	1.095 (27.8)
.2200	DPFF6P22J-F	0.85 (21.6)	0.85 (21.6)	1.70 (43.2)	1.095 (27.8)
.2200	DPFF6P22JS-F	0.83 (21.1)	0.85 (21.6)	1.65 (41.9)	1.095 (27.8)
<b>800 Vdc (450 Vac 60 Hz)</b>					
.0056	DPFF8D56J-F	0.50 (12.7)	0.50 (12.7)	1.30 (33.0)	0.72 (18.3)
.0056	DPFF8D56JS-F	0.28 (7.1)	0.34 (8.6)	1.25 (31.8)	0.72 (18.3)
.0068	DPFF8D68J-F	0.50 (12.7)	0.50 (12.7)	1.30 (33.0)	0.72 (18.3)
.0082	DPFF8D82J-F	0.50 (12.7)	0.50 (12.7)	1.30 (33.0)	0.72 (18.3)
.0100	DPFF8S1J-F	0.50 (12.7)	0.50 (12.7)	1.30 (33.0)	0.72 (18.3)
.0100	DPFF8S1JS-F	0.50 (12.7)	0.50 (12.7)	1.30 (33.0)	0.72 (18.3)
.0120	DPFF8S12J-F	0.55 (14.0)	0.55 (14.0)	1.30 (33.0)	0.72 (18.3)
.0120	DPFF8S12JS-F	0.35 (8.9)	0.41 (10.4)	1.25 (31.8)	0.72 (18.3)
.0150	DPFF8S15J-F	0.55 (14.0)	0.55 (14.0)	1.30 (33.0)	0.72 (18.3)
.0150	DPFF8S15JS-F	0.38 (9.7)	0.44 (11.2)	1.25 (31.8)	0.72 (18.3)
.0180	DPFF8S18J-F	0.60 (15.2)	0.60 (15.2)	1.30 (33.0)	0.72 (18.3)
.0220	DPFF8S22J-F	0.60 (15.2)	0.60 (15.2)	1.30 (33.0)	0.72 (18.3)
.0220	DPFF8S22JS-F	0.44 (11.2)	0.50 (12.7)	1.25 (31.8)	0.72 (18.3)
.0270	DPFF8S27J-F	0.70 (17.8)	0.70 (17.8)	1.30 (33.0)	0.72 (18.3)
.0330	DPFF8S33J-F	0.70 (17.8)	0.70 (17.8)	1.30 (33.0)	0.72 (18.3)
.0330	DPFF8S33JS-F	0.51 (13.0)	0.57 (14.5)	1.25 (31.8)	0.72 (18.3)
.0390	DPFF8S39J-F	0.70 (17.8)	0.70 (17.8)	1.70 (43.2)	1.095 (27.8)
.0470	DPFF8S47J-F	0.70 (17.8)	0.70 (17.8)	1.70 (43.2)	1.095 (27.8)
.0560	DPFF8S56J-F	0.80 (20.3)	0.80 (20.3)	1.70 (43.2)	1.095 (27.8)
.0680	DPFF8S68J-F	0.80 (20.3)	0.80 (20.3)	1.70 (43.2)	1.095 (27.8)
.0680	DPFF8S68JS-F	0.58 (14.7)	0.64 (16.3)	1.65 (41.9)	1.095 (27.8)
.0820	DPFF8S82J-F	0.90 (22.9)	0.90 (22.9)	1.70 (43.2)	1.095 (27.8)
.1000	DPFF8P1J-F	0.90 (22.9)	0.90 (22.9)	1.70 (43.2)	1.095 (27.8)
.1000	DPFF8P1JS-F	0.67 (17.0)	0.73 (18.5)	1.65 (41.9)	1.095 (27.8)
<b>1200 Vdc (475 Vac 60 Hz)</b>					
.0027	DPFF12D27J-F	0.50 (12.7)	0.50 (12.7)	1.30 (33.0)	0.72 (18.3)
.0033	DPFF12D33J-F	0.50 (12.7)	0.50 (12.7)	1.30 (33.0)	0.72 (18.3)
.0039	DPFF12D39J-F	0.50 (12.7)	0.50 (12.7)	1.30 (33.0)	0.72 (18.3)
.0047	DPFF12D47J-F	0.50 (12.7)	0.50 (12.7)	1.30 (33.0)	0.72 (18.3)
.0056	DPFF12D56J-F	0.55 (14.0)	0.55 (14.0)	1.30 (33.0)	0.72 (18.3)
.0068	DPFF12D68J-F	0.55 (14.0)	0.55 (14.0)	1.30 (33.0)	0.72 (18.3)
.0082	DPFF12D82J-F	0.60 (15.2)	0.60 (15.2)	1.30 (33.0)	0.72 (18.3)

Cap ( $\mu$ F)	Catalog Part Number	T Max. Inches (mm)	H Max. Inches (mm)	L Max. Inches (mm)	S $\pm 0.06$ ( $\pm 1.5$ ) Inches (mm)
<b>1200 Vdc (475 Vac 60 Hz)</b>					
.0100	DPFF12S1J-F	0.60 (15.2)	0.60 (15.2)	1.30 (33.0)	0.72 (18.3)
.0120	DPFF12S12J-F	0.65 (16.5)	0.65 (16.5)	1.30 (33.0)	0.72 (18.3)
.0150	DPFF12S15J-F	0.65 (16.5)	0.65 (16.5)	1.30 (33.0)	0.72 (18.3)
.0150	DPFF12S15JS-F	0.55 (14.0)	0.61 (15.5)	1.25 (31.8)	0.72 (18.3)
.0180	DPFF12S18J-F	0.65 (16.5)	0.65 (16.5)	1.30 (33.0)	1.095 (27.8)
.0220	DPFF12S22J-F	0.65 (16.5)	0.65 (16.5)	1.30 (33.0)	1.095 (27.8)
.0270	DPFF12S27J-F	0.75 (16.0)	0.75 (16.0)	1.70 (43.2)	1.095 (27.8)
.0330	DPFF12S33J-F	0.75 (16.0)	0.75 (16.0)	1.70 (43.2)	1.095 (27.8)
.0390	DPFF12S39J-F	0.85 (21.6)	0.85 (21.6)	1.70 (43.2)	1.095 (27.8)
.0390	DPFF12S39JS-F	0.68 (17.3)	0.74 (18.8)	1.65 (41.9)	1.095 (27.8)
.0470	DPFF12S47J-F	0.85 (21.6)	0.85 (21.6)	1.70 (43.2)	1.095 (27.8)
<b>1600 Vdc (500 Vac 60 Hz)</b>					
.0010	DPFF16D1JS-F	0.29 (7.4)	0.33 (8.4)	1.25 (31.8)	0.72 (18.3)
.0012	DPFF16D12JS-F	0.30 (7.6)	0.34 (8.6)	1.25 (31.8)	0.72 (18.3)
.0015	DPFF16D15JS-F	0.32 (8.1)	0.36 (9.1)	1.25 (31.8)	0.72 (18.3)
.0018	DPFF16D18J-F	0.50 (12.7)	0.50 (12.7)	1.30 (33.0)	0.72 (18.3)
.0022	DPFF16D22J-F	0.50 (12.7)	0.50 (12.7)	1.30 (33.0)	0.72 (18.3)
.0022	DPFF16D22JS-F	0.35 (8.9)	0.39 (9.9)	1.25 (31.8)	0.72 (18.3)
.0027	DPFF16D27J-F	0.55 (14.0)	0.55 (14.0)	1.30 (33.0)	0.72 (18.3)
.0033	DPFF16D33J-F	0.55 (14.0)	0.55 (14.0)	1.30 (33.0)	0.72 (18.3)
.0033	DPFF16D33JS-F	0.40 (10.2)	0.44 (11.2)	1.25 (31.8)	0.72 (18.3)
.0039	DPFF16D39J-F	0.60 (15.2)	0.60 (15.2)	1.30 (33.0)	0.72 (18.3)
.0047	DPFF16D47J-F	0.60 (15.2)	0.60 (15.2)	1.30 (33.0)	0.72 (18.3)
.0047	DPFF16D47JS-F	0.46 (11.7)	0.50 (12.7)	1.25 (31.8)	0.72 (18.3)
.0056	DPFF16D56J-F	0.65 (16.5)	0.65 (16.5)	1.30 (33.0)	0.72 (18.3)
.0068	DPFF16D68J-F	0.65 (16.5)	0.65 (16.5)	1.30 (33.0)	0.72 (18.3)
.0068	DPFF16D68JS-F	0.52 (13.2)	0.56 (14.2)	1.25 (31.8)	0.72 (18.3)
.0082	DPFF16D82J-F	0.70 (17.8)	0.70 (17.8)	1.30 (33.0)	0.72 (18.3)
.0100	DPFF16S1J-F	0.70 (17.8)	0.70 (17.8)	1.30 (33.0)	0.72 (18.3)
.0100	DPFF16S1JS-F	0.61 (15.5)	0.65 (16.5)	1.25 (31.8)	0.72 (18.3)
.0120	DPFF16S12J-F	0.75 (19.1)	0.75 (19.1)	1.70 (43.2)	1.095 (27.8)
.0150	DPFF16S15J-F	0.75 (19.1)	0.75 (19.1)	1.70 (43.2)	1.095 (27.8)
.0150	DPFF16S15JS-F	0.59 (15.0)	0.63 (16.0)	1.65 (41.9)	1.095 (27.8)
.0180	DPFF16S18J-F	0.85 (21.6)	0.85 (21.6)	1.70 (43.2)	1.095 (27.8)
.0220	DPFF16S22J-F	0.85 (21.6)	0.85 (21.6)	1.70 (43.2)	1.095 (27.8)
.0270	DPFF16S27J-F	0.95 (24.1)	0.95 (24.1)	1.70 (43.2)	1.095 (27.8)
0.033	DPFF16S33J-F	0.95 (24.1)	0.95 (24.1)	1.70 (43.2)	1.095 (27.8)
0.033	DPFF16S33JS-F	0.81 (20.6)	0.85 (21.6)	1.65 (41.9)	1.095 (27.8)