

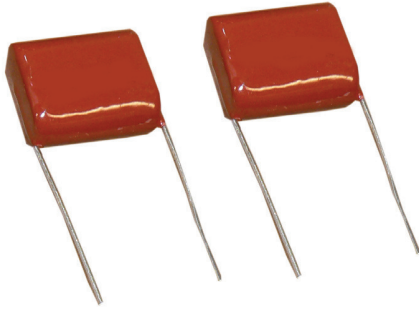
# Type DPP Polypropylene Radial Leaded Film Capacitors

High Frequency

Film/Foil

Precise Values

Radial Leaded



Type DPP radial leaded polypropylene film/foil capacitors are non-inductively wound. Very low dissipation factor and high insulation resistance contribute to excellent performance and long-term stability characteristics. Low ESR, DF and its inherent stability make Type DPP an ideal choice for tight tolerance, pulse and high-frequency applications.

## Specifications

**Capacitance Range:** 0.001 to 0.47  $\mu\text{F}$

**Voltage Range:** 100 to 630 Vdc  
(70 to 250 Vac, 60 Hz)

**Capacitance Tolerance:**  $\pm 10\%$  standard,  
 $\pm 5\%$  optional

**Operating Temperature Range:**  $-55\text{ }^\circ\text{C}$  to  $+105\text{ }^\circ\text{C}^*$

\*Full rated voltage at  $85\text{ }^\circ\text{C}$ , derated linearly to 50% rated voltage at  $+105\text{ }^\circ\text{C}$

**Dielectric Strength:** 200% (1 minute)

**Dissipation Factor:** 0.10% Max. ( $+25\text{ }^\circ\text{C}$ , 1 kHz)

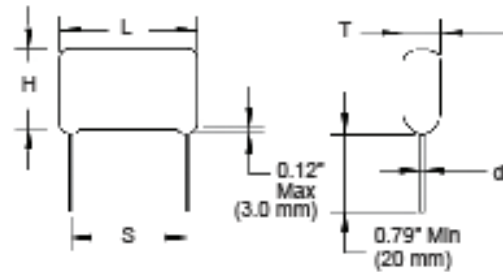
**Insulation Resistance:** 50,000  $\text{M}\Omega \cdot \mu\text{F}$ ,  
100,000  $\text{M}\Omega$  Min.

**Life Test:** 1000 hr at  $85\text{ }^\circ\text{C}$  at 125% rated voltage



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).

Pulse Capability			
Rated Volts	Body Length		
	0.630	.790 - .940	$\geq 1.02$
	dV/dt — volts per microsecond, max.		
100	4200	4000	1900
250	6900	4100	2400
400	19000	10000	3200
630	60000	20000	6700



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

## Ratings

Cap ( $\mu\text{F}$ )	Catalog Part Number	T Max. Inches (mm)	H Max. Inches (mm)	L Max. Inches (mm)	S $\pm 0.06$ ( $\pm 1.5$ ) Inches (mm)	d $\pm 0.05$ (1.27) Inches (mm)
<b>100 Vdc (70 Vac 60 Hz)</b>						
.033	DPP1S33K-F	0.315 (8.0)	0.532 (13.5)	0.768 (19.5)	0.591 (15.0)	.024 (.6)
.047	DPP1S47K-F	0.335 (8.5)	0.610 (15.5)	0.768 (19.5)	0.591 (15.0)	.024 (.6)
.068	DPP1S68K-F	0.374 (9.5)	0.650 (16.5)	0.788 (20.0)	0.591 (15.0)	.024 (.6)
.10	DPP1P1K-F	0.394 (10.4)	0.670 (17.0)	1.024 (26.0)	0.788 (20.0)	.024 (.6)
.15	DPP1P15K-F	0.433 (11.0)	0.748 (19.0)	1.024 (26.0)	0.788 (20.0)	.032 (.8)
.22	DPP1P22K-F	0.512 (13.0)	0.748 (19.0)	1.024 (26.0)	0.788 (20.0)	.032 (.8)
.33	DPP1P33K-F	0.551 (14.0)	0.827 (21.0)	1.260 (32.0)	1.083 (27.5)	.032 (.8)
.47	DPP1P47K-F	0.630 (16.0)	0.945 (24.0)	1.260 (32.0)	1.083 (27.5)	.032 (.8)
<b>250 Vdc (140 Vac 60 Hz)</b>						
.010	DPP2S1K-F	0.276 (7.0)	0.473 (12.0)	0.591 (15.0)	0.394 (10.0)	0.024 (.6)
.015	DPP2S15K-F	0.295 (7.5)	0.473 (12.0)	0.591 (15.0)	0.394 (10.0)	0.024 (.6)
.022	DPP2S22K-F	0.315 (8.0)	0.512 (13.0)	0.591 (15.0)	0.394 (10.0)	0.024 (.6)

# Type DPP Polypropylene Radial Leaded Film Capacitors

Cap ( $\mu$ F)	Catalog		T Max. Inches (mm)	H Max. Inches (mm)	L Max. Inches (mm)	S $\pm$ 0.06 ( $\pm$ 1.5) Inches (mm)	d $\pm$ 0.05 (1.27) Inches (mm)
	Part Number						
<b>250 Vdc (140 Vac 60 Hz)</b>							
.033	DPP2S33K-F		0.335 (8.5)	0.551 (14.0)	0.788 (20.0)	0.591 (15.0)	0.024 (.6)
.047	DPP2S47K-F		0.354 (9.0)	0.630 (16.0)	0.788 (20.0)	0.591 (15.0)	0.024 (.6)
.068	DPP2S68K-F		0.433 (11.0)	0.630 (16.0)	0.788 (20.0)	0.591 (15.0)	0.024 (.6)
.10	DPP2P1K-F		0.394 (10.0)	0.709 (18.0)	1.024 (26.0)	0.788 (20.0)	0.032 (.8)
.15	DPP2P15K-F		0.473 (12.0)	0.866 (22.0)	1.024 (26.0)	0.788 (20.0)	0.032 (.8)
.22	DPP2P22K-F		0.551 (14.0)	0.945 (24.0)	1.024 (26.0)	0.788 (20.0)	0.032 (.8)
.33	DPP2P33K-F		0.591 (15.0)	0.985 (25.0)	1.260 (32.0)	1.083 (27.5)	0.032 (.8)
.47	DPP2P47K-F		0.680 (16.0)	1.063 (27.0)	1.260 (32.0)	1.083 (27.5)	0.032 (.8)
<b>400 Vdc (250 Vac 60 Hz)</b>							
.010	DPP4S1K-F		0.335 (8.5)	0.551 (14.0)	0.591 (15.0)	0.394 (10.0)	0.024 (.6)
.015	DPP4S15K-F		0.354 (9.0)	0.591 (15.0)	0.591 (15.0)	0.394 (10.0)	0.024 (.6)
.022	DPP4S22K-F		0.394 (10.0)	0.670 (17.0)	0.768 (19.5)	0.591 (15.0)	0.024 (.6)
.033	DPP4S33K-F		0.394 (10.0)	0.670 (17.0)	0.768 (19.5)	0.591 (15.0)	0.024 (.6)
.047	DPP4S47K-F		0.354 (9.0)	0.630 (16.0)	1.024 (26.0)	0.788 (20.0)	0.032 (.8)
.068	DPP4S68K-F		0.433 (11.0)	0.709 (18.0)	1.024 (26.0)	0.788 (20.0)	0.032 (.8)
.10	DPP4P1K-F		0.473 (12.0)	0.788 (20.0)	1.260 (32.0)	1.083 (27.5)	0.032 (.8)
.15	DPP4P15K-F		0.473 (12.0)	0.906 (23.0)	1.260 (32.0)	1.083 (27.5)	0.032 (.8)
<b>630 Vdc (250 Vac 60 Hz)</b>							
.0010	DPP6 D1K-F		0.256 (6.5)	0.492 (12.5)	0.591 (15.0)	0.394 (10.0)	.024 (.6)
.0015	DPP6 D15K-F		0.276 (7.0)	0.492 (12.5)	0.591 (15.0)	0.394 (10.0)	.024 (.6)
.0022	DPP6 D22K-F		0.276 (7.0)	0.492 (12.5)	0.591 (15.0)	0.394 (10.0)	.024 (.6)
.0033	DPP6 D33K-F		0.295 (7.5)	0.473 (12.0)	0.768 (19.5)	0.591 (15.0)	.024 (.6)
.0047	DPP6 D47K-F		0.315 (8.0)	0.492 (12.5)	0.768 (19.5)	0.591 (15.0)	.024 (.6)
.0068	DPP6 D68K-F		0.354 (9.0)	0.551 (14.0)	0.768 (19.5)	0.591 (15.0)	.024 (.6)
.010	DPP6S1K-F		0.354 (9.0)	0.551 (14.0)	1.024 (26.0)	0.788 (20.0)	.024 (.6)
.015	DPP6S15K-F		0.394 (10.0)	0.630 (16.0)	1.024 (26.0)	0.788 (20.0)	.024 (.6)
.022	DPP6S22K-F		0.433 (11.0)	0.670 (17.0)	1.024 (26.0)	0.788 (20.0)	.024 (.6)
.033	DPP6S33K-F		0.433 (11.0)	0.670 (17.0)	1.260 (32.0)	1.083 (27.5)	.032 (.8)
.047	DPP6S47K-F		0.492 (12.5)	0.748 (19.0)	1.260 (32.0)	1.083 (27.5)	.032 (.8)
.068	DPP6S68K-F		0.551 (14.0)	0.866 (22.0)	1.260 (32.0)	1.083 (27.5)	.032 (.8)
.100	DPP6P1K-F		0.512 (13.0)	0.866 (22.0)	1.260 (32.0)	1.083 (27.5)	.032 (.8)