

# Type DPP Polypropylene Radial Leaded Film Capacitors

## High Frequency Film/Foil Polypropylene Capacitors

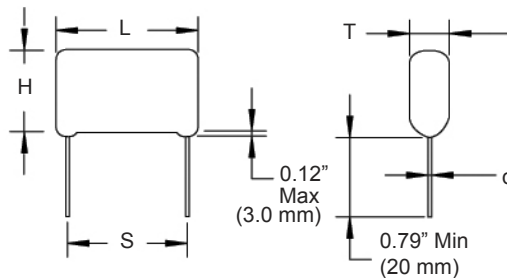


Type DPP radial leaded polypropylene film/foil capacitors are non-inductively wound. Very low dissipation factor and high insulation resistance contribute to excellent performance and long-term stability characteristics. Low ESR, DF and its inherent stability make Type DPP an ideal choice for tight tolerance,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

### Highlights

- High dv/dt
- Low ESR
- Low DF
- Good for pulse and high frequency applications

### Outline Drawing



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

### 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  $+105\text{ }^\circ\text{C}$  (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 @  $85\text{ }^\circ\text{C}$  @ 125% rated voltage  
**Pulse Capability:**

Rated Volts	Body Length		
	0.63	.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

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## Ratings

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)	d $\pm$ 0.05 (1.27) Inches (mm)
<b>100 Vdc / 70 Vac 60 Hz)</b>						
.033	DPP1S33K	0.315 (8.0)	0.532 (13.5)	0.768 (19.5)	0.591 (15.0)	.024 (.6)
.047	DPP1S47K	0.335 (8.5)	0.610 (15.5)	0.768 (19.5)	0.591 (15.0)	.024 (.6)
.068	DPP1S68K	0.374 (9.5)	0.650 (16.5)	0.788 (20.0)	0.591 (15.0)	.024 (.6)
.10	DPP1P1K	0.394 (10.4)	0.670 (17.0)	1.024 (26.0)	0.788 (20.0)	.024 (.6)
.15	DPP1P15K	0.433 (11.0)	0.748 (19.0)	1.024 (26.0)	0.788 (20.0)	.032 (.8)
.22	DPP1P22K	0.512 (13.0)	0.748 (19.0)	1.024 (26.0)	0.788 (20.0)	.032 (.8)
.33	DPP1P33K	0.551 (14.0)	0.827 (21.0)	1.260 (32.0)	1.083 (27.5)	.032 (.8)
.47	DPP1P47K	0.63 (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	0.276 (7.0)	0.473 (12.0)	0.591 (15.0)	0.394 (10.0)	0.024 (.6)
.015	DPP2S15K	0.295 (7.5)	0.473 (12.0)	0.591 (15.0)	0.394 (10.0)	0.024 (.6)
.022	DPP2S22K	0.315 (8.0)	0.512 (13.0)	0.591 (15.0)	0.394 (10.0)	0.024 (.6)
.033	DPP2S33K	0.335 (8.5)	0.551 (14.0)	0.788 (20.0)	0.591 (15.0)	0.024 (.6)
.047	DPP2S47K	0.354 (9.0)	0.630 (16.0)	0.788 (20.0)	0.591 (15.0)	0.024 (.6)
.068	DPP2S68K	0.433 (11.0)	0.630 (16.0)	0.788 (20.0)	0.591 (15.0)	0.024 (.6)
.10	DPP2P1K	0.394 (10.0)	0.709 (18.0)	1.024 (26.0)	0.788 (20.0)	0.032 (.8)
.15	DPP2P15K	0.473 (12.0)	0.866 (22.0)	1.024 (26.0)	0.788 (20.0)	0.032 (.8)
.22	DPP2P22K	0.551 (14.0)	0.945 (24.0)	1.024 (26.0)	0.788 (20.0)	0.032 (.8)
.33	DPP2P33K	0.591 (15.0)	0.985 (25.0)	1.260 (32.0)	1.083 (27.5)	0.032 (.8)
.47	DPP2P47K	0.63 (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	0.335 (8.5)	0.551 (14.0)	0.591 (15.0)	0.394 (10.0)	0.024 (.6)
.015	DPP4S15K	0.354 (9.0)	0.591 (15.0)	0.591 (15.0)	0.394 (10.0)	0.024 (.6)
.022	DPP4S22K	0.394 (10.0)	0.670 (17.0)	0.768 (19.5)	0.591 (15.0)	0.024 (.6)
.033	DPP4S33K	0.394 (10.0)	0.670 (17.0)	0.768 (19.5)	0.591 (15.0)	0.024 (.6)
.047	DPP4S47K	0.354 (9.0)	0.630 (16.0)	1.024 (26.0)	0.788 (20.0)	0.032 (.8)
.068	DPP4S68K	0.433 (11.0)	0.709 (18.0)	1.024 (26.0)	0.788 (20.0)	0.032 (.8)
.10	DPP4P1K	0.473 (12.0)	0.788 (20.0)	1.260 (32.0)	1.083 (27.5)	0.032 (.8)
.15	DPP4P15K	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	0.256 (6.5)	0.492 (12.5)	0.591 (15.0)	0.394 (10.0)	.024 (.6)
.0015	DPP6 D15K	0.276 (7.0)	0.492 (12.5)	0.591 (15.0)	0.394 (10.0)	.024 (.6)
.0022	DPP6 D22K	0.276 (7.0)	0.492 (12.5)	0.591 (15.0)	0.394 (10.0)	.024 (.6)
.0033	DPP6 D33K	0.295 (7.5)	0.473 (12.0)	0.768 (19.5)	0.591 (15.0)	.024 (.6)
.0047	DPP6 D47K	0.315 (8.0)	0.492 (12.5)	0.768 (19.5)	0.591 (15.0)	.024 (.6)
.0068	DPP6 D68K	0.354 (9.0)	0.551 (14.0)	0.768 (19.5)	0.591 (15.0)	.024 (.6)
.010	DPP6S1K	0.354 (9.0)	0.551 (14.0)	1.024 (26.0)	0.788 (20.0)	.024 (.6)
.015	DPP6S15K	0.394 (10.0)	0.630 (16.0)	1.024 (26.0)	0.788 (20.0)	.024 (.6)
.022	DPP6S22K	0.433 (11.0)	0.670 (17.0)	1.024 (26.0)	0.788 (20.0)	.024 (.6)
.033	DPP6S33K	0.433 (11.0)	0.670 (17.0)	1.260 (32.0)	1.083 (27.5)	.032 (.8)
.047	DPP6S47K	0.492 (12.5)	0.748 (19.0)	1.260 (32.0)	1.083 (27.5)	.032 (.8)
.068	DPP6S68K	0.551 (14.0)	0.866 (22.0)	1.260 (32.0)	1.083 (27.5)	.032 (.8)
.10	DPP6P1K	0.512 (13.0)	0.866 (22.0)	1.260 (32.0)	1.083 (27.5)	.032 (.8)