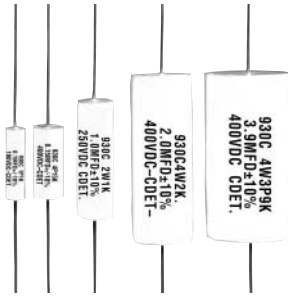


Type 930, Polypropylene Film Capacitors

Metallized Axial Leads

High Voltage/High Frequency Switching Power Supplies



Type 930 axial-leaded, metallized polypropylene capacitors are available in a wide range of capacitance values in reduced sizes. Flame-retardant tape wrap and epoxy end seals provide moisture resistance. Used most frequently in high-voltage/high-frequency switching power supplies where superior stability and AC performance characteristics are important. This non-protected film capacitor has Underwriters Laboratories, Inc. recognition for construction only. U.L. File Number assigned is E128034(N).

Film Capacitors

Specifications

Voltage Range: 100-630 Vdc (70-275 Vac)

Capacitance Range: .022-10 μ F

Capacitance Tolerance: $\pm 10\%$ (K) standard
 $\pm 5\%$ (J) optional

Operating Temperature Range: -55°C to 105°C^*

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

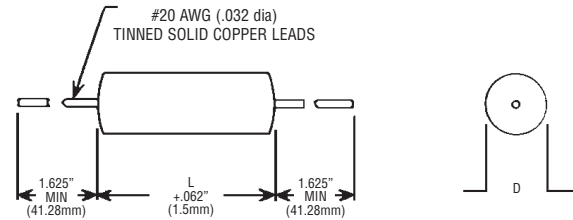
Dielectric Strength: 200% (1 minute)

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

Insulation Resistance: 200,000 $\text{M}\Omega \times \mu\text{F}$
400,000 $\text{M}\Omega$ Min.

Life Test: 1,000 Hours at 85°C at 125% Rated Voltage

Pulse Capability				
Rated Volts	Body Length			
	.750	1.000	1.250	≥ 1.750
	dV/dt—volts per microsecond, maximum			
100	25	14	10	6
250	37	21	15	9
400	49	28	20	13
630	74	43	30	19



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

Ratings and Dimensions

Normally Stocked

Cap. μF	Catalog Number	D Maximum Inches (mm)	L +.062 (1.5) Inches (mm)	ESR (milliohms) 20-100 kHz	Maximum Ripple Current (Amps rms) at 20 kHz Case Temperature						
					+25C	+35C	+45C	+55C	+65C	+75C	+85C
100 Vdc (70 Vac)											
.22	930C1P22K	.275 (7.0)	.750 (19.0)	---							
.27	930C1P27K	.298 (7.6)	.750 (19.0)	---							
.33	930C1P33K	.324 (8.2)	.750 (19.0)	---							
.39	930C1P39K	.347 (8.8)	.750 (19.0)	---							
.47	930C1P47K	.376 (9.5)	.750 (19.0)	37	3.7	3.4	3.1	2.8	2.5	2.0	1.4
.56	930C1P56K	.321 (8.2)	1.000 (25.4)	35	3.9	3.6	3.3	2.9	2.6	2.1	1.5
.68	930C1P68K	.348 (8.8)	1.000 (25.4)	33	4.1	3.8	3.5	3.1	2.8	2.2	1.6
.82	930C1P82K	.377 (9.6)	1.000 (25.4)	31	4.3	4.0	3.6	3.2	2.9	2.3	1.7
1.00	930C1W1K	.421 (10.7)	1.000 (25.4)	26	5.5	5.1	4.7	4.2	3.6	2.8	2.6
1.20	930C1W1P2K	.454 (11.5)	1.000 (25.4)	24	5.7	5.3	4.9	4.4	3.8	3.0	2.8
1.50	930C1W1P5K	.500 (12.7)	1.000 (25.4)	20	6.1	5.5	5.1	4.6	4.0	3.2	3.1
1.80	930C1W1P8K	.541 (13.7)	1.000 (25.4)	19	6.3	5.7	5.3	4.8	4.1	3.4	3.0
2.00	930C1W2K	.486 (12.3)	1.250 (31.7)	18	6.5	6.0	5.5	4.9	4.2	3.5	3.2
2.20	930C1W2P2K	.507 (12.9)	1.250 (31.7)	18	6.8	6.3	5.7	2.1	4.4	3.6	3.3
2.70	930C1W2P7K	.554 (14.1)	1.250 (31.7)	17	7.1	6.5	6.0	5.3	4.6	3.7	3.4
3.00	930C1W3K	.581 (14.8)	1.250 (31.7)	16	7.3	6.7	6.2	5.5	4.8	3.9	3.5
3.30	930C1W3P3K	.606 (15.4)	1.250 (31.7)	16	7.4	6.8	6.4	5.6	4.9	4.0	3.6
3.90	930C1W3P9K	.654 (16.6)	1.250 (31.7)	15	7.6	6.9	6.6	5.8	5.1	4.1	3.7
4.00	930C1W4K	.537 (13.6)	1.750 (44.4)	15	7.8	7.0	6.7	5.9	5.2	4.2	3.8
4.70	930C1W4P7K	.577 (14.7)	1.750 (44.4)	15	8.1	7.4	6.8	6.0	5.3	4.3	3.9
5.00	930C1W5K	.593 (15.1)	1.750 (44.4)	14	8.3	7.6	7.0	6.2	5.4	4.4	4.0
5.60	930C1W5P6K	.624 (15.8)	1.750 (44.4)	14	8.4	7.7	7.1	6.4	5.5	4.5	4.1
6.00	930C1W6K	.644 (16.4)	1.750 (44.4)	14	8.5	7.8	7.2	6.5	5.6	1.6	4.2
6.80	930C1W6P8K	.682 (17.3)	1.750 (44.4)	13	8.5	8.0	7.4	6.7	5.7	4.7	4.3
8.00	930C1W8K	.735 (18.7)	1.750 (44.4)	13	8.6	8.3	7.7	6.8	6.0	4.8	4.4
8.20	930C1W8P2K	.743 (18.9)	1.750 (44.4)	13	8.8	8.6	8.0	7.0	6.1	4.9	4.5
10.00	930C1W10K	.815 (20.7)	1.750 (44.4)	12	9.0	9.0	8.5	7.6	6.6	5.4	4.9

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CDE **CORNELL DUBILIER**
Your Source For Capacitor Solutions

Type 930, Polypropylene Film Capacitors

Ratings and Dimensions — Normally Stocked

Cap. μ F	Catalog Number	D		L		ESR (milliohms) 20-100 kHz	Maximum Ripple Current (Amps rms) at 20 kHz Case Temperature						
		Maximum Inches (mm)		+0.062 (1.5) Inches (mm)			+25C	+35C	+45C	+55C	+65C	+75C	+85C
250 Vdc (175 Vac)													
.100	930C2P1K	.315	(8.0)	.750	(19.0)	---							
.120	930C2P12K	.315	(8.0)	.750	(19.0)	---							
.150	930C2P15K	.335	(8.5)	.750	(19.0)	---							
.180	930C2P18K	.353	(9.0)	.750	(19.0)	---							
.220	930C2P22K	.335	(8.5)	1.000	(25.4)	---							
.270	930C2P27K	.333	(8.5)	1.000	(25.4)	---							
.330	930C2P33K	.362	(9.2)	1.000	(25.4)	---							
.390	930C2P39K	.389	(9.9)	1.000	(25.4)	---							
.470	930C2P47K	.422	(10.7)	1.000	(25.4)	35	3.8	3.7	3.6	3.4	2.9	2.4	1.7
.560	930C2P56K	.464	(11.8)	1.000	(25.4)	33	3.9	3.8	3.7	3.5	3.1	2.5	1.8
.680	930C2P68K	.472	(12.0)	1.250	(31.7)	32	4.0	3.9	3.8	3.7	3.2	2.6	1.9
.820	930C2P82K	.471	(12.0)	1.250	(31.7)	31	4.2	4.1	4.0	3.9	3.4	2.8	2.0
1.000	930C2W1K	.513	(13.0)	1.260	(32.0)	28	4.4	4.4	4.4	4.4	4.3	3.5	3.2
1.200	930C2W1P2K	.554	(14.1)	1.260	(32.0)	27	4.7	4.6	4.5	5.0	4.5	3.7	3.3
1.500	930C2W1P5K	.613	(15.6)	1.260	(32.0)	26	5.1	5.0	4.9	5.4	4.7	3.9	3.5
1.800	930C2W1P8K	.667	(16.9)	1.250	(31.7)	25	5.9	5.8	5.7	5.7	5.0	4.1	3.7
2.000	930C2W2K	.700	(17.8)	1.250	(31.7)	21	7.2	7.2	6.8	6.0	5.2	4.3	3.9
2.200	930C2W2P2K	.650	(16.5)	1.750	(44.4)	20	8.4	7.5	7.0	6.3	5.4	4.5	4.1
2.700	930C2W2P7K	.669	(17.0)	1.750	(44.4)	19	8.6	7.8	7.3	6.6	5.7	4.7	4.3
3.000	930C2W3K	.703	(17.8)	1.750	(44.4)	18	9.0	8.3	7.6	6.8	5.9	4.8	4.4
3.300	930C2W3P3K	.734	(18.6)	1.750	(44.4)	18	9.0	8.4	7.8	7.0	6.0	4.9	4.5
3.900	930C2W3P9K	.794	(20.2)	1.750	(44.4)	17	9.0	8.5	8.0	7.2	6.2	5.0	4.6
4.000	930C2W4K	.803	(20.4)	1.750	(44.4)	16	9.0	8.5	8.2	7.4	6.3	5.1	4.7
4.700	930C2W4P7K	.866	(22.0)	1.750	(44.4)	16	9.0	8.8	8.5	7.7	6.6	5.3	4.9
5.000	930C2W5K	.892	(22.6)	1.750	(44.4)	15	9.0	9.0	8.8	7.9	6.8	5.6	5.1
5.600	930C2W5P6K	.941	(23.9)	1.750	(44.4)	15	9.0	9.0	8.9	8.0	7.0	5.8	5.3
6.000	930C2W6K	.972	(24.7)	1.750	(44.4)	15	9.0	9.0	9.0	8.2	7.2	5.9	5.5
6.800	930C2W6P8K	.882	(22.4)	2.250	(57.1)	15	9.0	9.0	9.0	8.4	7.4	6.0	5.6
8.000	930C2W8K	.953	(24.2)	2.250	(57.1)	14	9.0	9.0	9.0	8.7	7.8	6.3	5.8
8.200	930C2W8P2K	.964	(24.5)	2.250	(57.1)	14	9.0	9.0	9.0	8.8	7.9	6.4	5.9
10.000	930C2W10K	1.060	(26.9)	2.250	(57.1)	13	9.0	9.0	9.0	9.0	8.3	6.8	6.2
400 Vdc (275 Vac)													
.047	930C4S47K	.315	(8.0)	.750	(19.0)	---							
.056	930C4S56K	.315	(8.0)	.750	(19.0)	---							
.068	930C4S68K	.315	(8.0)	.750	(19.0)	---							
.082	930C4S82K	.320	(8.1)	.750	(19.0)	---							
.100	930C4P1K	.348	(8.8)	.750	(19.0)	---							
.120	930C4P12K	.299	(7.6)	1.000	(25.4)	---							
.150	930C4P15K	.335	(8.5)	1.000	(25.4)	---							
.180	930C4P18K	.353	(9.0)	1.000	(25.4)	---							
.220	930C4P22K	.385	(9.8)	1.000	(25.4)	---							
.270	930C4P27K	.421	(10.7)	1.000	(25.4)	---							
.330	930C4P33K	.469	(11.9)	1.000	(25.4)	---							
.390	930C4P39K	.503	(12.8)	1.000	(25.4)	---							
.470	930C4P47K	.545	(13.8)	1.260	(32.0)	32	5.7	5.5	5.0	4.4	3.8	3.2	2.2
.560	930C4P56K	.503	(12.8)	1.260	(32.0)	31	5.7	5.7	5.3	4.4	4.1	3.3	2.3
.680	930C4P68K	.551	(14.0)	1.260	(32.0)	30	5.7	5.7	5.5	4.8	4.3	3.5	2.4
.820	930C4P82K	.599	(15.2)	1.260	(32.0)	28	5.7	5.7	5.6	5.3	4.5	3.7	2.6
1.000	930C4W1K	.655	(16.6)	1.260	(32.0)	27	5.7	5.7	5.7	5.7	5.7	4.7	4.3
1.200	930C4W1P2K	.712	(18.1)	1.260	(32.0)	26	6.3	6.2	6.0	5.9	5.8	4.9	4.5
1.500	930C4W1P5K	.709	(18.0)	1.750	(44.4)	25	7.0	6.9	6.7	6.6	6.5	5.2	4.7
1.800	930C4W1P8K	.716	(18.2)	1.750	(44.4)	23	8.0	7.9	7.8	7.7	6.8	5.5	5.0
2.000	930C4W2K	.752	(19.1)	1.750	(44.4)	21	9.0	9.0	9.0	8.0	7.0	5.7	5.2
2.200	930C4W2P2K	.827	(21.0)	1.750	(44.4)	20	9.0	9.0	9.0	8.3	7.4	5.9	5.4
2.700	930C4W2P7K	.865	(22.0)	1.750	(44.4)	19	9.0	9.0	9.0	8.6	7.6	6.0	5.6
3.000	930C4W3K	.909	(23.1)	1.750	(44.4)	17	9.0	9.0	9.0	9.0	7.9	6.4	5.9
3.300	930C4W3P3K	.951	(24.1)	1.750	(44.4)	16	9.0	9.0	9.0	9.0	8.1	6.6	6.3
3.900	930C4W3P9K	1.031	(26.2)	1.750	(44.4)	15	9.0	9.0	9.0	9.0	8.3	6.8	6.5

Film Capacitors

Type 930, Polypropylene Film Capacitors

Ratings and Dimensions Normally Stocked

Cap. μF	Catalog Number	D		L		ESR (milliohms) 20-100 kHz	Maximum Ripple Current (Amps rms) at 20 kHz Case Temperature						
		Maximum Inches (mm)		+ .062 (1.5) Inches (mm)			+25C	+35C	+45C	+55C	+65C	+75C	+85C
630 Vdc (275 Vac)													
.022	930C6S22K	.315 (8.0)		.750 (19.0)		---							
.027	930C6S27K	.315 (8.0)		.750 (19.0)		---							
.033	930C6S33K	.334 (8.5)		.750 (19.0)		---							
.039	930C6S39K	.358 (9.1)		.750 (19.0)		---							
.047	930C6S47K	.388 (9.9)		.750 (19.0)		---							
.056	930C6S56K	.418 (10.6)		.750 (19.0)		---							
.068	930C6S68K	.354 (9.0)		1.000 (25.4)		---							
.082	930C6S82K	.374 (9.5)		1.000 (25.4)		---							
.100	930C6P1K	.433 (11.0)		1.000 (25.4)		---							
.120	930C6P12K	.443 (11.2)		1.000 (25.4)		---							
.150	930C6P15K	.512 (13.0)		1.260 (32.0)		---							
.180	930C6P18K	.538 (13.7)		1.260 (32.0)		---							
.220	930C6P22K	.496 (12.6)		1.260 (32.0)		---							
.270	930C6P27K	.542 (13.8)		1.260 (32.0)		---							
.330	930C6P33K	.593 (15.1)		1.260 (32.0)		---							
.390	930C6P39K	.639 (16.2)		1.260 (32.0)		---							
.470	930C6P47K	.696 (17.7)		1.457 (37.0)		28	6.8	6.3	5.8	5.2	4.5	3.6	2.6
.560	930C6P56K	.608 (15.4)		1.750 (44.4)		26	7.4	6.9	6.3	5.6	4.8	4.0	2.8
.680	930C6P68K	.709 (18.0)		1.750 (44.4)		25	7.8	7.2	6.6	5.9	5.1	4.2	2.9
.820	930C6P82K	.724 (18.4)		1.750 (44.4)		22	8.1	7.5	6.9	6.2	5.3	4.3	3.1
1.000	930C6W1K	.794 (20.2)		1.850 (47.0)		18	8.6	7.9	7.3	6.5	5.6	4.6	3.6

Film
Capacitors