

WRAP-AND-FILL METALIZED POLYPHENYLENE SULFIDE FILM CAPACITORS

TYPE 880P



FEATURES

- High temperature to +150°C
- Close tolerances
- Rugged / lightweight
- Extensive standard ratings

MAJOR APPLICATIONS:

Timing, feedback circuits, filtering, decoupling.

PHYSICAL CHARACTERISTICS

CONSTRUCTION:

Non-inductive wound metalized polyphenylene sulfide.

CASE: Flame retardant tape wrap and epoxy endfill.

LEAD MATERIAL: Solder coated solid wire.

LEAD WIRE SIZES:

Case Dia.	Lead AWG
< 0.200	0.020 (No. 24)
0.200 - 0.300	0.025 (No. 22)
0.301 - 0.500	0.032 (No. 20)
> 0.500	0.040 (No. 18)

LEAD STRENGTH:

Capable of withstanding a five pound pull force on lead axis.

MARKING:

Dearborn trademark, type or catalog number, capacitance, tolerance and voltage.

ELECTRICAL SPECIFICATIONS

CAPACITANCE RANGE: 0.0047 μ F to 10.0 μ F

VOLTAGE RATING:

- 50 VDC to 400 VDC
- 32 VRMS to 240 VRMS

CAPACITANCE TOLERANCE: $\pm 10\%$, $\pm 5\%$, $\pm 2\%$

OPERATING TEMPERATURE:

-55°C to +150°C without derating for DC operation AC operation limited to +125°C

DISSIPATION FACTOR: 0.15% max. when measured at 1kHz @ 25°C

DC VOLTAGE TEST: 200% of rated voltage for 1 min.

INSULATION RESISTANCE:

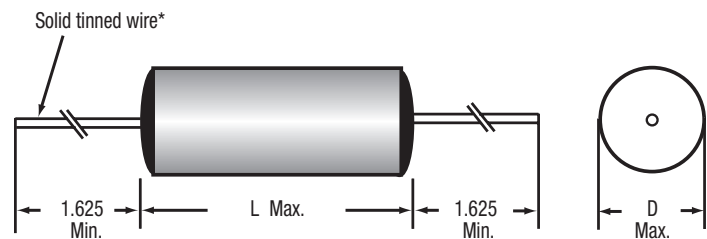
Measured at rated VDC after a 2 minute charge.

- At +25°C, 100,000 Megaohm-Microfarads, need not exceed 200,000 Megaohms
- At +85°C, 2,000 Megaohm-Microfarads, need not exceed 4,000 Megaohms
- At +125°C, 250 Megaohm-Microfarads, need not exceed 500 Megaohms
- At +150°C, 10 Megaohm-Microfarads, need not exceed 100 Megaohms

MAXIMUM PULSE RISE TIME

Capacitor Length (inch)	Rise Time dv / dt (V / μ s)			
	50 V	100 V	200 V	400 V
0.400	25	35	57	100
0.530	13	20	38	65
0.750	7	14	20	35
1.030	6	9	14	20
1.250	4	7	11	17
1.500	-	-	9	15
1.750	-	-	-	10

DIMENSIONS (in inches)



* Leads to be within ± 0.062 " of center line at egress, but not less than 0.031" from edge.

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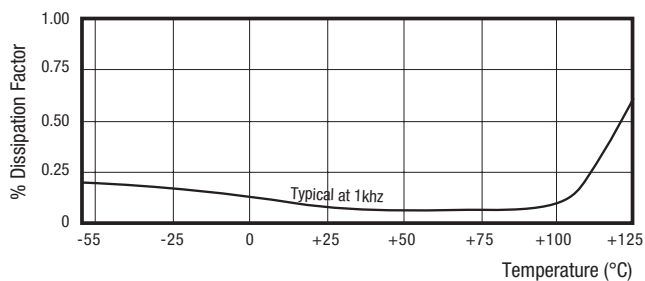
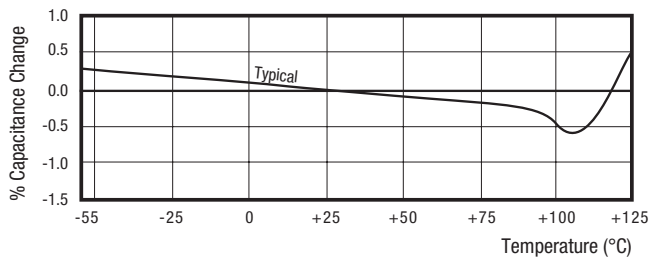
STANDARD RATINGS

Capacitance		Voltage Code 050 50 VDC / 32 VAC*		Voltage Code 100 100 VDC / 63 VAC*		Voltage Code 200 200 VDC / 126 VAC*		Voltage Code 400 400 VDC / 240 VAC*	
μF	Code	D	L	D	L	D	L	D	L
0.0047	472	-	-	-	-	0.170	0.400	-	-
0.0068	682	-	-	-	-	0.170	0.400	-	-
0.010	103	0.170	0.400	0.170	0.400	0.170	0.400	0.260	0.400
0.015	153	0.170	0.400	0.170	0.400	0.190	0.400	0.260	0.530
0.022	223	0.170	0.400	0.170	0.400	0.230	0.400	0.310	0.530
0.033	333	0.170	0.400	0.190	0.400	0.230	0.400	0.390	0.530
0.047	473	0.170	0.400	0.230	0.400	0.260	0.400	0.350	0.750
0.068	683	0.170	0.400	0.230	0.400	0.260	0.530	0.400	1.030
0.10	104	0.190	0.400	0.260	0.400	0.350	0.530	0.400	1.030
0.15	154	0.230	0.400	0.260	0.400	0.310	0.750	0.490	1.030
0.22	224	0.260	0.400	0.260	0.530	0.350	0.750	0.490	1.250
0.33	334	0.260	0.530	0.350	0.530	0.350	1.030	0.490	1.500
0.47	474	0.310	0.530	0.310	0.750	0.400	1.030	0.610	1.500
0.68	684	0.310	0.530	0.350	0.750	0.490	1.030	0.670	1.750
1.00	105	0.310	0.750	0.440	0.750	0.490	1.250	0.740	1.750
1.50	155	0.350	0.750	0.440	1.030	0.560	1.250	-	-
2.00	205	0.400	0.750	0.490	1.030	0.560	1.500	-	-
2.70	275	0.350	1.030	0.560	1.030	0.670	1.500	-	-
3.00	305	0.350	1.030	0.490	1.250	0.670	1.500	-	-
4.00	405	0.440	1.030	0.610	1.250	-	-	-	-
5.00	505	0.490	1.030	0.610	1.250	-	-	-	-
6.80	685	0.490	1.250	-	-	-	-	-	-
8.00	805	0.560	1.250	-	-	-	-	-	-
10.00	106	0.610	1.250	-	-	-	-	-	-

Additional capacitance values, voltages, and tolerances are available upon request.

* AC voltage rating is at 400Hz 1.4 x VRMS + VDC should not exceed the rated VDC.

TYPICAL CHARACTERISTICS PPS FILM / FOIL TYPES



IR VS. TEMPERATURE

