TYPE 410P

WRAP-AND-FILL POLYESTER DIELECTRIC FILM / FOIL CONSTRUCTION

FEATURES

- Extended Foil Construction
- Moisture Resistant

PHYSICAL CHARACTERISTICS

CONSTRUCTION:
Non-inductive wound polyester film and foil.

CASE: Flame retardant tape wrap and epoxy endfill.

LEAD MATERIAL: Solder coated solid wire.

LEAD WIRE SIZES:

Case Dia.	Lead AWG
≤ 0.437	0.025 (No. 22)
> 0.437	0.032 (No. 20)

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: 0.001 µF to 5.0 µF

VOLTAGE RATING:
- 50 VDC to 600 VDC
- 32 VAC to 220 VAC

CAPACITANCE TOLERANCE: ±20%, ±10%, ±5%

OPERATING TEMPERATURE: -55°C to +125°C

DISSIPATION FACTOR: 1.0%, maximum

VOLTAGE DERATING:
- At +105°C, 70% of the 85°C rating
- At +125°C, 50% of the 85°C rating

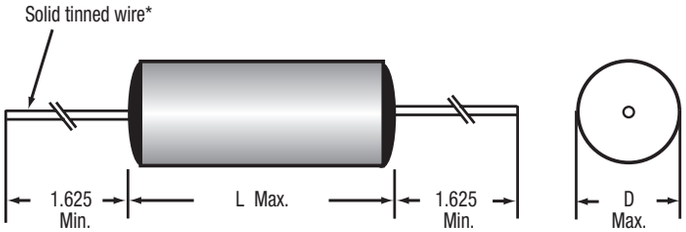
VOLTAGE TEST: 200% of rated voltage for 1 minute

INSULATION RESISTANCE:
- At +25°C, 50,000 Megaohm-Microfarads, need not exceed 100,000 Megaohms
- At +85°C, 2,500 Megaohm-Microfarads, need not exceed 5,000 Megaohms
- At +105°C, 1,000 Megaohm-Microfarads, need not exceed 2,000 Megaohms
- At +125°C, 10 Megaohm-Microfarads, need not exceed 150 Megaohms

MAXIMUM PULSE RISE TIME

Capacitor Length (inch)	Rise Time dv / dt (V / µs)				
	50 VDC	100 VDC	200 VDC	400 VDC	600 VDC
0.450	-	1000	-	-	-
0.531	735	-	-	-	-
0.594	540	-	-	-	-
0.656	360	-	-	-	-
0.718	288	288	413	875	1563
0.750	275	-	-	-	-
0.812	252	-	-	-	-
0.844	-	219	268	620	1050
0.875	-	-	-	-	1018
0.969	-	-	217	-	-
1.000	-	-	180	475	764
1.062	161	-	-	-	-
1.250	-	127	160	329	515
1.375	124	-	-	-	-
1.562	-	114	137	310	359
1.625	110	-	-	-	-
1.750	-	-	124	290	-
1.875	100	-	110	-	-
1.937	-	100	-	250	344
2.125	75	-	-	-	316
2.375	-	90	100	185	261
2.625	-	74	90	-	234
3.062	-	-	83	-	-

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 / 200 VAC*		Voltage Code 600 600 VDC / 220 VAC*	
µF	Code	D	L	D	L	D	L	D	L	D	L
0.0010	102	-	-	-	-	0.190	0.450	0.190	0.718	0.190	0.718
0.0015	152	-	-	-	-	0.190	0.450	0.190	0.718	0.190	0.718
0.0022	222	-	-	-	-	0.190	0.450	0.190	0.718	0.190	0.718
0.0033	332	-	-	-	-	0.190	0.450	0.190	0.718	0.205	0.718
0.0047	472	-	-	-	-	0.190	0.450	0.190	0.718	0.235	0.718
0.0068	682	-	-	0.190	0.450	0.190	0.718	0.190	0.718	0.240	0.844
0.010	103	-	-	0.190	0.450	0.190	0.718	0.200	0.844	0.270	0.844
0.015	153	0.190	0.531	0.190	0.718	0.190	0.718	0.230	0.844	0.315	0.875
0.022	223	0.200	0.594	0.190	0.718	0.190	0.718	0.265	0.844	0.375	0t.875
0.033	333	0.210	0.656	0.190	0.718	0.190	0.844	0.315	0.875	0.395	1.000
0.047	413	0.215	0.718	0.215	0.718	0.210	0.844	0.325	1.000	0.400	1.250
0.068	683	0.250	0.718	0.215	0.844	0.240	0.844	0.340	1.250	0.455	1.250
0.10	104	0.290	0.750	0.245	0.844	0.275	0.969	0.400	1.250	0.470	1.562
0.15	154	0.312	0.812	0.285	0.844	0.345	1.000	0.405	1.562	0.545	1.562
0.22	224	0.315	1.062	0.290	1.250	0.355	1.250	0.480	1.562	0.590	1.937
0.33	334	0.375	1.062	0.325	1.250	0.425	1.250	0.650	1.750	0.800	1.937
0.47	474	0.430	1.062	0.380	1.250	0.440	1.562	0.725	1.937	0.890	2.125
0.68	689	0.450	1.375	0.455	1.562	0.610	1.750	0.750	2.375	0.980	2.375
1.00	105	0.500	1.375	0.535	1.562	0.710	1.875	0.900	2.375	-	-
1.50	155	0.640	1.625	0.645	1.937	0.730	2.375	-	-	-	-
2.00	205	0.730	1.625	0.715	1.937	0.800	2.375	-	-	-	-
2.50	255	0.750	1.875	0.715	2.375	0.834	2.625	-	-	-	-
3.00	305	0.830	1.875	0.770	2.375	0.905	2.625	-	-	-	-
4.00	405	0.850	2.125	0.830	2.625	0.945	3.062	-	-	-	-
5.00	505	0.940	2.125	0.915	2.625	-	-	-	-	-	-

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

* AC voltage rating is at 60Hz 1.4 x VRMS + VDC should not exceed the rated VDC.