TYPE 132P

PAPER / POLYESTER DIELECTRIC EXTENDED FOIL ELECTRODES

FEATURES

- Moderate cost
- Small size
- High peak current ratings
- High corona starting voltage
- Approved to MIL-PRF-19978

MAJOR APPLICATIONS:
High voltage, high current, high pulse operations, protection circuits, and snubber applications.

PHYSICAL CHARACTERISTICS

CONSTRUCTION:
Non-inductive wound paper / polyester dielectric with extended foil electrodes. Impregnated with vitamin Q.

CASE:
Hermetically sealed metal enclosure. Styles and dimensions are in Guide to Ordering section in the front of the catalog.

LEAD MATERIAL:
Solder coated solid wire.

LEAD WIRE SIZES:

Case Dia.	Lead AWG
< 0.235	No. 24
< 0.235 and 0.312	No. 22
0.400 and over	No. 20

LEAD PULL:
5 lbs (2.3 kg) for one minute. No physical damage.

LEAD BEND:
After three complete consecutive bends. No damage.

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

ELECTRICAL SPECIFICATIONS

CAPACITANCE RANGE:
0.001 µF to 1.0 µF

VOLTAGE RATING:
100 VDC to 1,000 VDC

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

OPERATING TEMPERATURE:
-65°C to +125°C

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

DISSIPATION FACTOR:
1.0% maximum

DC VOLTAGE TEST:
200% of rated voltage for 2 minutes

INSULATION RESISTANCE:
Measure at rated VDC or 500 V, whichever is less, after a 2 minute charge.

- At +25°C, 20,000 Megaohm-Microfarads, need not exceed 30,000 Megaohms
- At +125°C, 20 Megaohm-Microfarads, need not exceed 250 Megaohms

MAXIMUM PULSE RISE TIME

Capacitor Length (inch)	Rise Time dv / dt (V / µs)					
	100 VDC	200 VDC	300 VDC	400 VDC	600 VDC	1,000 VDC
0.687 / 0.750	800	1600	2000	3000	4500	-
0.812 / 0.875	700	1000	1000	1000	1500	2500
1.062 / 1.125	400	500	650	800	1000	1500
1.312 / 1.375	300	350	425	500	800	1000
1.562 / 1.625	200	250	300	350	500	800
1.812 / 1.875	-	-	-	-	-	550
2.062 / 2.125	-	200	250	300	400	500
2.312 / 2.375	-	-	-	-	300	450

STANDARD RATINGS

Capacitance		Voltage Code 100 100 VDC		Voltage Code 200 200 VDC		Voltage Code 300 300 VDC		Voltage Code 400 400 VDC		Voltage Code 600 600 VDC		Voltage Code 1000 1,000 VDC	
µF	Code	D	L	D	L	D	L	D	L	D	L	D	L
0.0010	102	0.175	0.687	0.235	0.687	0.235	0.687	0.235	0.687	0.235	0.687	0.400	0.812
0.0015	152	0.175	0.687	0.235	0.687	0.235	0.687	0.235	0.687	0.235	0.687	0.400	0.812
0.0022	222	0.175	0.687	0.235	0.687	0.235	0.687	0.235	0.687	0.235	0.687	0.400	0.812
0.0033	332	0.175	0.687	0.235	0.687	0.235	0.687	0.235	0.687	0.312	0.812	0.400	0.812
0.0047	472	0.175	0.687	0.235	0.687	0.235	0.687	0.312	0.812	0.312	0.812	0.400	0.812
0.0068	682	0.195	0.687	0.235	0.687	0.312	0.812	0.195	0.812	0.312	0.812	0.400	0.812
0.010	103	0.235	0.687	0.312	0.812	0.312	0.812	0.312	0.812	0.312	0.812	0.400	0.812
0.015	153	0.235	0.687	0.312	0.812	0.312	0.812	0.312	0.812	0.400	0.812	0.400	1.062
0.022	223	0.312	0.812	0.312	0.812	0.312	0.812	0.400	0.812	0.400	0.812	0.400	1.312
0.033	333	0.312	0.812	0.312	0.812	0.400	0.812	0.400	0.812	0.400	1.062	0.562	1.062
0.047	473	0.312	0.812	0.400	0.812	0.400	0.812	0.400	1.062	0.400	1.312	0.562	1.312
0.068	683	0.400	0.812	0.400	0.812	0.400	1.062	0.400	1.312	0.562	1.062	0.562	1.562
0.10	104	0.400	0.812	0.400	1.062	0.400	1.312	0.562	1.062	0.562	1.312	0.670	1.562
0.15	154	0.400	1.062	0.400	1.312	0.562	1.062	0.562	1.312	0.562	1.562	0.670	1.812
0.22	224	0.400	1.062	0.562	1.062	0.562	1.312	0.562	1.562	0.670	1.562	0.750	2.062
0.33	334	0.562	1.062	0.562	1.312	0.562	1.562	0.670	1.562	0.750	2.062	1.000	2.062
0.47	474	0.562	1.312	0.562	1.562	0.670	1.562	0.750	2.062	0.750	2.312	1.000	2.312
0.68	684	0.562	1.562	0.670	1.562	0.750	2.062	-	-	-	-	-	-
1.00	105	0.670	1.562	0.750	2.062	-	-	-	-	-	-	-	-

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

* The dimensions Tabulated above are for styles 01, 03, and 12. Add 0.062" to the length for styles 02, 04, and 13.