TYPE 860P

METAL-CASE HERMETICALLY-SEALED METALIZED POLYPHENYLENE SULFIDE FILM CAPACITORS

FEATURES

- High stability, polycarbonate replacement
- Small size
- Low power dissipation
- Low dielectric absorption
- Wire leads or tab terminals

MAJOR APPLICATIONS:
Storage, filtering, timing, integrating, and applications where severe environments require hermetically sealed cases.

PHYSICAL CHARACTERISTICS

CONSTRUCTION:
Non-inductive wound metalized polyphenylene sulfide.

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
0.175 and 0.195	No. 24
0.235	No. 22
0.312	No. 20
0.400 and over	No. 18

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:
0.01 µF to 10.0 µF

AC VOLTAGE RANGE:
126 to 250 VRMS

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

OPERATING TEMPERATURE:
- -55°C to +125°C
- AC operation limited to +105°C

VOLTAGE DERATING:
- At +105°C, 70% of the DC rated voltage
- At +125°C, 50% of the DC rated voltage

DISSIPATION FACTOR:
0.15% maximum when measured @ 1 kHz @ 25°C

VOLTAGE TEST:
200% of rated voltage for 2 minutes

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, 10,000 Megaohm-Microfarads, need not exceed 50,000 Megaohms
- At +125°C, 1,000 Megaohm-Microfarads, need not exceed 2,000 Megaohms

MAXIMUM PULSE RISE TIME

Capacitor Length (inch)	Rise Time dv / dt (V / µs)			
	200 V	300 V	400 V	600 V
0.750	40	80	-	-
0.875	24	45	70	100
1.125	16	30	41	75
1.375	13	23	28	50
1.625	10	-	21	38
1.875	7.6	13	18	27
2.125	6.4	-	15.5	-
2.375	5.5	9.6	-	19
2.625	4.8	8.5	10	-

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STANDARD RATINGS

Capacitance		Voltage Code 200 200 VDC / 126 VAC*		Voltage Code 300 300 VDC / 180 VAC*		Voltage Code 400 400 VDC / 220 VAC*		Voltage Code 600 600 VDC / 250 VAC*	
µF	Code	D	L	D	L	D	L	D	L
0.010	103	0.174	0.750	0.235	0.750	0.312	0.875	0.312	0.875
0.015	153	0.193	0.750	0.312	0.875	0.312	0.875	0.400	1.125
0.022	223	0.235	0.750	0.312	0.875	0.312	0.875	0.400	1.125
0.033	333	0.235	0.750	0.312	0.875	0.312	1.125	0.400	1.125
0.047	473	0.312	0.875	0.312	0.875	0.312	1.125	0.400	1.375
0.068	683	0.312	0.875	0.312	1.125	0.400	1.125	0.562	1.125
0.10	104	0.312	0.875	0.400	1.125	0.400	1.375	0.562	1.375
0.15	154	0.312	1.125	0.400	1.375	0.500	1.125	0.562	1.625
0.22	224	0.400	0.875	0.500	1.125	0.562	1.375	0.670	1.625
0.33	334	0.400	1.125	0.562	1.125	0.562	1.625	0.750	1.875
0.47	474	0.400	1.375	0.562	1.375	0.670	1.625	0.750	2.375
0.68	684	0.562	1.125	0.562	1.875	0.670	1.875	1.000	1.875
1.00	105	0.562	1.375	0.670	1.875	0.750	2.125	1.000	2.375
2.00	205	0.670	1.625	0.750	2.375	1.000	2.125	-	-
2.50	255	0.670	1.875	0.750	2.625	1.000	2.625	-	-
3.00	305	0.750	1.875	1.000	1.875	-	-	-	-
4.00	405	0.750	2.125	1.000	2.375	-	-	-	-
5.00	505	0.750	2.375	-	-	-	-	-	-
6.00	605	1.000	1.875	-	-	-	-	-	-
7.00	705	1.000	1.875	-	-	-	-	-	-
10.00	106	1.000	2.625	-	-	-	-	-	-

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.

* Graphs of AC voltage vs. frequency follow.

* The dimensions tabulated above are for styles 02, 04, and 13. Subtract 0.062" from the length for styles 01, 03, and 12.

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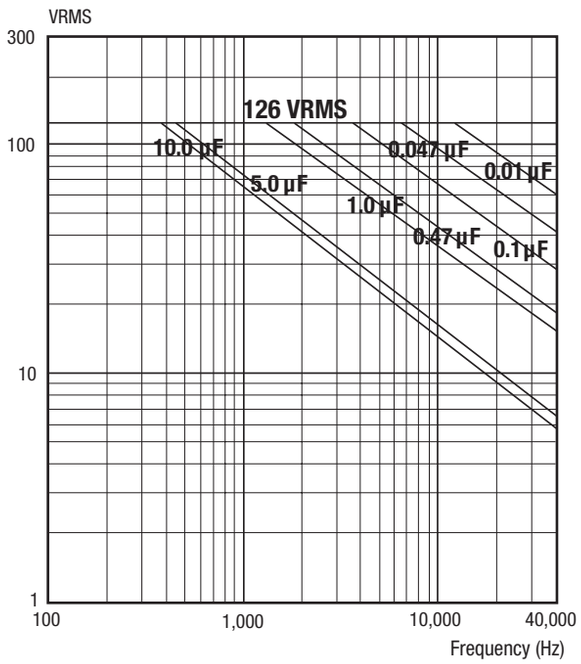
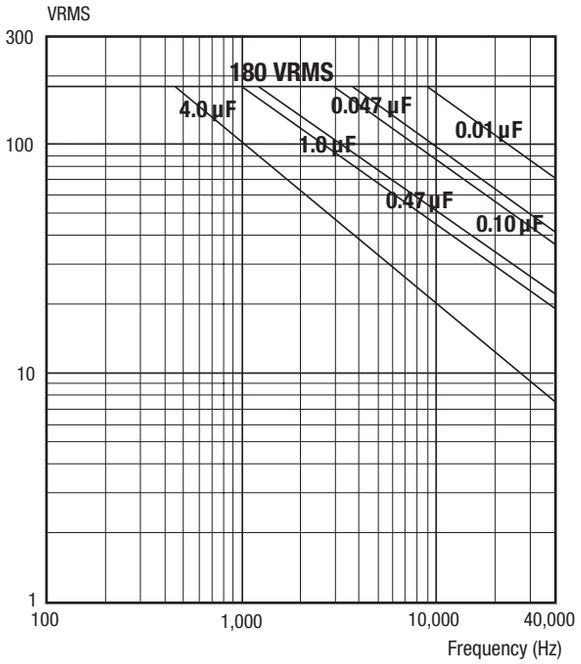
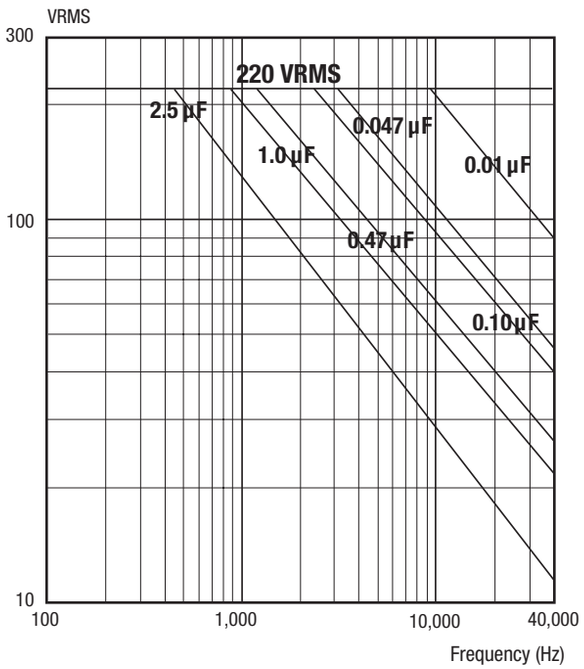
VOLTAGE VS. FREQUENCY TYPE 860P
200 VDC / 126 VAC



VOLTAGE VS. FREQUENCY TYPE 860P
300 VDC / 180 VAC



VOLTAGE VS. FREQUENCY TYPE 860P
400 VDC / 220 VAC



VOLTAGE VS. FREQUENCY TYPE 860P
600 VDC / 250 VAC