

METALIZED POLYPROPYLENE FILM CAPACITOR ALTERNATIVE TO ALUMINUM ELECTROLYTICS

TYPE 781P



FEATURES

- Non-polar construction
- Voltage ratings to 1,800 VDC
- Superior performance from -55°C to +85°C
- Greater current density
- Higher over voltage protection
- Dry construction eliminates electrolyte leakage
- Improved reliability
- Longer shelf life

MAJOR APPLICATIONS:

Filmlytics offer the same package dimensions and terminations as standard electrolytics with all the advantages of self-healing metalized film electrodes and the superior performance of film capacitors.

PHYSICAL CHARACTERISTICS

CONSTRUCTION: Dry, non-inductively wound metalized film.

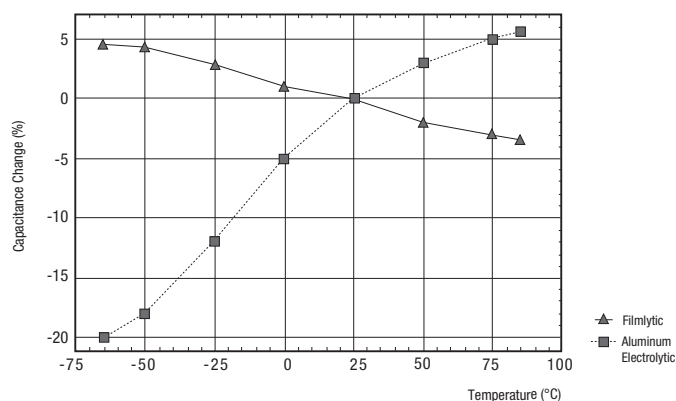
CASE: Aluminum case with plastic insulating sleeve.

TERMINALS: High current terminals mounted on a plastic deck.

MARKING:

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

CAPACITANCE CHANGE VS. TEMPERATURE



ELECTRICAL SPECIFICATIONS

CAPACITANCE TOLERANCE:

±20%, ±10%

CAPACITANCE CHANGE:

±5% from -55°C to +85°C

OPERATING TEMPERATURE:

-55°C to +85°C

DISSIPATION FACTOR:

1.0% Maximum at 1kHz

DC VOLTAGE TEST:

140% of rated voltage for 1 minute

INSULATION RESISTANCE:

Measure at 500 VDC after a 10 minute charge.

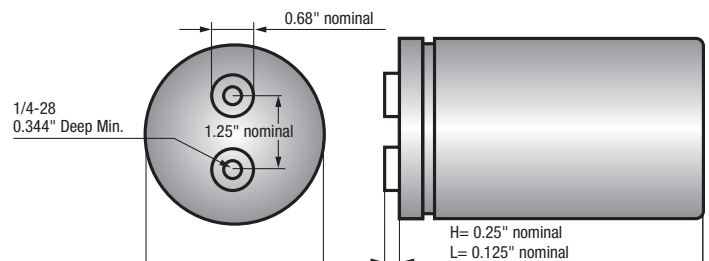
- At +25°C, 20,000 Megaohm-Microfarads
- At +85°C, 2,000 Megaohm-Microfarads

COEFFICIENTS FOR RIPPLE CURRENT

Temperature	25°C	50°C	70°C
	1.7x	1.4x	1x

Frequency Voltage Rating	60Hz	120Hz	400Hz	1kHz
	600, 800, 900	0.17x	0.35x	1x
1,000, 1,200	0.14x	0.28x	1x	1.58x
1,300, 1,500	0.11x	0.22x	1x	1.58x
1,800	0.08x	0.16x	1x	1.58x

DIMENSIONS (in inches)



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STANDARD RATINGS

Capacitance		Case Size	Typical ESR M Ω 100kHz	dv / dt (V / μ s)	Max. I. rms @70°C, 400Hz
μ F	Code				
600 VDC (Voltage Code 600)					
200	207	3.2	6.3	8.3	38.8
300	307	4.2	9.1	5.3	53.6
400	407	5.2	11.8	3.9	68.3
800 VDC (Voltage Code 800)					
120	127	3.2	8.0	10.3	29.4
190	197	4.2	11.1	6.6	42.5
260	267	5.2	13.9	4.8	56.1
900 VDC (Voltage Code 900)					
85	856	3.2	8.8	12.8	25.2
130	137	4.2	12.4	8.1	36.3
180	187	5.2	16.5	5.9	46.2
1,000 VDC (Voltage Code 1K0)					
60	606	3.2	10.4	15.0	20.9
95	95	4.2	14.9	9.5	30.0
130	137	5.2	19.3	6.9	39.0
1,200 VDC (Voltage Code 1K2)					
45	456	3.2	11.1	18.5	18.5
70	706	4.2	16.6	11.3	25.9
100	107	5.2	21.1	8.2	34.6
1,300 VDC (Voltage Code 1K3)					
35	356	3.2	12.5	20.7	16.2
55	556	4.2	18.6	12.7	22.9
75	756	5.2	24.7	9.2	29.5
1,500 VDC (Voltage Code 1K5)					
28	286	3.2	13.9	23.1	14.4
45	456	4.2	20.3	14.2	20.8
65	656	5.2	25.6	10.2	28.1
1,800 VDC (Voltage Code 1K8)					
18	186	3.2	16.3	30.1	11.6
30	306	4.2	23.9	17.9	17.0
42	426	5.2	31.5	12.7	22.3

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