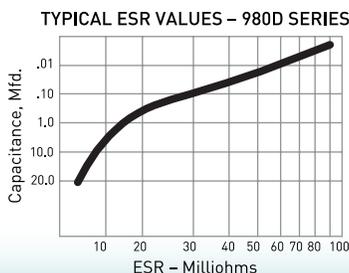
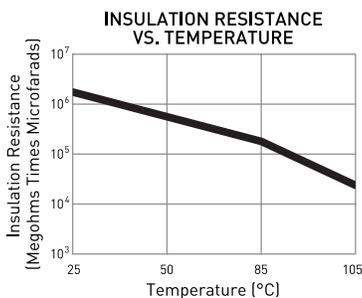
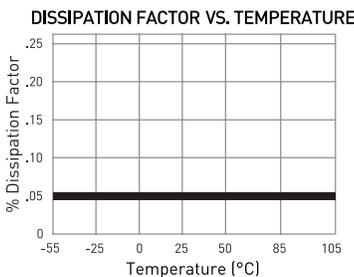
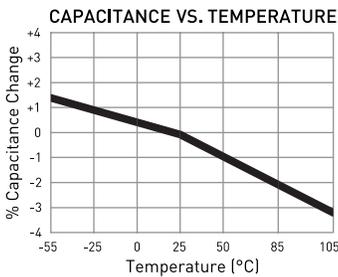


Metallized Polypropylene 980D Series Film Capacitors

High Current/High Frequency

The rugged 980D Metallized Polypropylene Capacitors offer high frequency operation, high current and low ESR in a miniature package. Able to handle high surge currents without degrading, it's an excellent replacement for an electrolytic capacitor. Designed for AC and pulsing applications, it's ideal for audio systems, electric vehicle circuitry, high-powered inverter applications, avionics, and solar- and wind-power generation. The 980D series is proudly made in the U.S. with proprietary techniques in a wide variety of sizes and configurations.

Typical Dielectric Characteristic Curves



980D SERIES					
RMS CURRENT (MAX) 20 Hz to 100 KHz*					
CAP. MFD.	CURRENT (AMPS)				
	100 V	200 V	400 V	600 V	
.0010	.085	.085	.085	.085	
.0015	.085	.085	.085	.090	
.0022	.098	.098	.098	.125	
.0033	.138	.138	.138	.140	
.0047	.192	.192	.192	.192	
.0068	.225	.225	.225	.225	
.0082	.233	.233	.233	.233	
.010	.275	.275	.275	.275	
.015	.275	.275	.300	.350	
.022	.390	.390	.390	.400	
.033	.400	.420	.560	.560	
.047	.400	.560	.780	.790	
.068	.560	.850	1.19	1.25	
.082	.670	.950	1.19	1.25	
.10	.850	1.25	1.25	1.30	
.15	1.25	1.35	1.39	1.45	
.22	1.65	1.65	1.65	1.75	
.33	1.65	1.65	1.65	1.75	
.47	1.65	1.95	1.95	2.00	
.68	2.75	2.75	2.75	3.00	
.82	3.05	3.10	3.35	3.50	
1.0	3.35	3.45	3.55	3.75	
2.0	4.50	4.50	5.25	5.35	
5.0	6.67	8.40	11.20	15.50	

*Notes: Derate Amp 30% @ 50°C.
Current ratings based on component ambient temperature of 25°C.



980D Series

Available in round shape with axial-lead wrap and fill

Features

- Protective clear wrap offered on all wrap and fill units
- Extended foil construction and standard tin-coated copper leads
- Potting material and endfills meet or exceed the flammability requirements of UL94V0
- Compliance and certification to worldwide and other environmental standards available upon request; RoHS and Non-RoHS available on most units
- Rated for 67-135-270-440 VRMS up to 100 KHz, also used for DC applications up to 600 VDC
- Customizable insulating sleeves, mountings, special terminals, non-standard leads, circuit connections and other hardware
- Assorted styles, ratings and customization for unusual requirements necessitated by special circuit applications (including higher IR or lower DF)
- Dimensional variations for all mfd. values available with same volume

Specifications

Temperature range

- -55°C to +105°C with voltage derating

Dielectric voltage test

- At 25°C for a period not to exceed 1 minute, will withstand application of:
 - 150 VDC on 67 VAC
 - 300 VDC on 135 VAC
 - 600 VDC on 270 VAC
 - 900 VDC on 440 VAC

- Current limited to 5 mA

DC life test

- Parts at 105°C for 250 hours with not more than 1 failure in 12 permitted to withstand application of:
 - 138 VDC on 67 VRMS
 - 280 VDC on 135 VRMS
 - 560 VDC on 270 VRMS
 - 840 VDC on 440 VRMS

- Current limited to 5 mA
- Additional life test details available

Dissipation factor

- Will not exceed
 - 0.1% at 25°C for values to 1 mfd.
 - 0.2% for values 1 mfd. and over

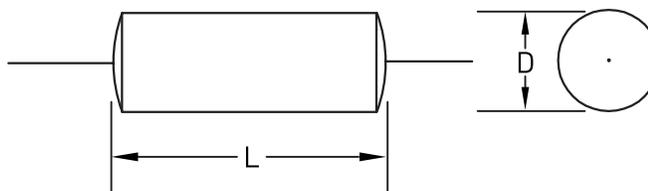
Dielectric absorption

- Will not exceed 0.1% at 25°C per MIL-C-19978

Acceptance criteria

- Measurement frequency for capacitance and dissipation factor will be:
 - 1,000 Hz for values up to 1 mfd.
 - 120 Hz for values over 1 mfd.

Wrap and Fill Round Configuration



For max. D and L dimensions, allow +.050".

LEAD LENGTH: 2.0" ±.50"

100 VOLTAGE DC/67 VAC					200 VOLTAGE DC/135 VAC					400 VOLTAGE DC/270 VAC					600 VOLTAGE DC/440 VAC				
MFD.	PART NO.	DIMENSIONS		LEAD SIZE (AWG)	PART NO.	DIMENSIONS		LEAD SIZE (AWG)	MFD.	PART NO.	DIMENSIONS		LEAD SIZE (AWG)	PART NO.	DIMENSIONS		LEAD SIZE (AWG)		
		D	L			D	L				D	L			D	L			
.0010	980D1B102*	.15	.40	24	980D1C102*	.15	.40	24	.0010	980D1E102*	.15	.40	24	980D1F102*	.15	.40	24		
.0015	980D1B152*	.15	.40	24	980D1C152*	.15	.40	24	.0015	980D1E152*	.15	.40	24	980D1F152*	.15	.40	24		
.0022	980D1B222*	.15	.40	24	980D1C222*	.15	.40	24	.0022	980D1E222*	.15	.40	24	980D1F222*	.15	.40	24		
.0033	980D1B332*	.15	.40	24	980D1C332*	.15	.40	24	.0033	980D1E332*	.15	.40	24	980D1F332*	.15	.40	24		
.0047	980D1B472*	.15	.40	24	980D1C472*	.15	.40	24	.0047	980D1E472*	.15	.40	24	980D1F472*	.15	.40	24		
.0068	980D1B682*	.15	.40	24	980D1C682*	.15	.40	24	.0068	980D1E682*	.15	.40	24	980D1F682*	.19	.53	24		
.0082	980D1B822*	.15	.40	24	980D1C822*	.15	.40	24	.0082	980D1E822*	.15	.53	24	980D1F822*	.20	.53	24		
.010	980D1B103*	.15	.40	24	980D1C103*	.15	.40	24	.010	980D1E103*	.15	.53	24	980D1F103*	.21	.53	24		
.015	980D1B153*	.15	.40	24	980D1C153*	.15	.53	24	.015	980D1E153*	.15	.53	24	980D1F153*	.23	.53	24		
.022	980D1B223*	.15	.40	24	980D1C223*	.15	.53	24	.022	980D1E223*	.18	.53	24	980D1F223*	.25	.69	24		
.033	980D1B333*	.15	.53	24	980D1C333*	.18	.53	24	.033	980D1E333*	.22	.53	24	980D1F333*	.29	.69	24		
.047	980D1B473*	.15	.53	24	980D1C473*	.21	.53	24	.047	980D1E473*	.26	.53	24	980D1F473*	.34	.69	22		
.068	980D1B683*	.16	.53	24	980D1C683*	.24	.53	24	.068	980D1E683*	.31	.53	24	980D1F683*	.32	.95	22		
.082	980D1B823*	.18	.53	24	980D1C823*	.26	.53	24	.082	980D1E823*	.28	.65	24	980D1F823*	.34	.95	22		
.10	980D1B104*	.20	.53	24	980D1C104*	.29	.53	24	.10	980D1E104*	.30	.65	22	980D1F104*	.37	.95	22		
.15	980D1B154*	.24	.53	24	980D1C154*	.28	.65	24	.15	980D1E154*	.37	.65	22	980D1F154*	.45	.95	22		
.22	980D1B224*	.28	.53	24	980D1C224*	.29	.78	24	.22	980D1E224*	.39	.78	22	980D1F224*	.46	1.21	20		
.33	980D1B334*	.28	.65	24	980D1C334*	.36	.78	22	.33	980D1E334*	.48	.78	20	980D1F334*	.55	1.21	20		
.47	980D1B474*	.29	.78	24	980D1C474*	.38	.90	22	.47	980D1E474*	.43	1.15	20	980D1F474*	.65	1.21	20		
.68	980D1B684*	.35	.78	22	980D1C684*	.39	1.15	22	.68	980D1E684*	.49	1.15	20	980D1F684*	.63	1.71	20		
.82	980D1B824*	.38	.78	22	980D1C824*	.43	1.15	22	.82	980D1E824*	.55	1.15	20	980D1F824*	.69	1.71	20		
1.0	980D1B105*	.31	1.15	22	980D1C105*	.47	1.15	22	1.0	980D1E105*	.54	1.40	20	980D1F105*	.75	1.71	20		
2.0	980D1B205*	.43	1.15	22	980D1C205*	.57	1.40	20	2.0	980D1E205*	.68	1.65	20	980D1F205*	.96	1.96	20		
5.0	980D1B505*	.55	1.65	20	980D1C505*	.74	1.90	20	5.0	980D1E505*	.98	1.90	20	980D1F505*	1.24	2.71	20		
10.0	980D1B106*	.70	1.90	20	980D1C106*	1.05	1.90	20	10.0	980D1E106*	1.38	1.90	20	980D1F106*	-	-	-		
15.0	980D1B156*	.86	1.90	20	980D1C156*	1.31	1.90	20	15.0	980D1E156*	-	-	-	980D1F156*	-	-	-		
20.0	980D1B206*	.99	1.90	20	980D1C206*	1.48	1.90	20	20.0	980D1E206*	-	-	-	980D1F206*	-	-	-		

* Add tolerance designator to complete part number: F = ±1%, G = ±2%, J = ±5%, K = ±10%, M = ±20%

For questions and/or a quote, contact Sales at 909-595-4037 or info@electrocube.com.



Founded in 1961, Electrocube is one of the most respected design manufacturers of passive electrical components – film capacitors, RC Networks, EMI Filters and foil transformers – for a wide range of standard and custom applications in the aerospace, audio, elevator, heavy equipment industries and more. Electrocube's hallmark is its clear understanding of the challenges faced by design engineers and purchasing agents. www.electrocube.com