

Metallized Polyphenylene Sulfide 340D Series Film Capacitors

The Metallized Polyphenylene Sulfide 340D series exhibits superior electrical characteristics over an extremely wide temperature range. The miniature size, high Q, excellent IR and capacitance stability make the 340D series ideally suited to filter network and other low-loss high frequency applications, including electric vehicle circuitry, high-powered inverter applications, avionics, and solar- and wind-power generation. Proudly made in the U.S. with proprietary techniques, it is available in a wide range of sizes and configurations.

Specifications

Temperature range

- -55°C to +150°C at rated voltage

Dielectric strength

- Will withstand 200% at rated voltage and 25°C for a period not to exceed 1 minute
- Current limited to 5 mA

Life test

- Will withstand 140% rated voltage for 250 hours at +150°C with not more than 1 failure in 12 permitted

Dissipation factor

- Will not exceed 0.3% at 25°C

Dielectric absorption

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

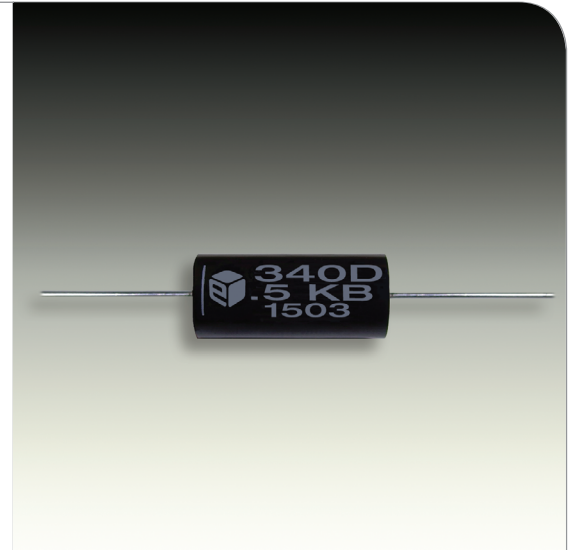
Acceptance criteria

- 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.

Insulation resistance

- At rated voltage or 500 V, whichever is less, units will meet minimum values as follows:

TEMP. (°C)	MEG x MFD.		MEG (need not exceed)	
	50 – 100 V	200 V – UP	50 – 100 V	200 V – UP
25	25,000	50,000	50,000	100,000
85	5,000	10,000	10,000	20,000
125	2,000	4,000	4,000	8,000
150	1,000	2,000	2,000	4,000



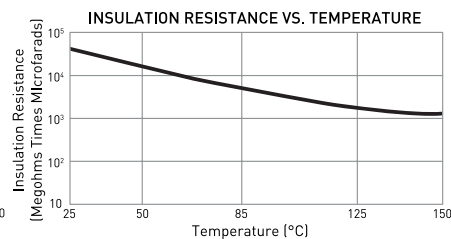
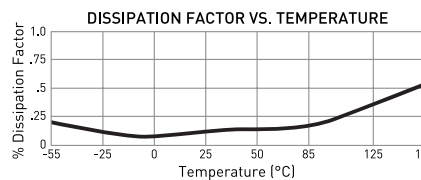
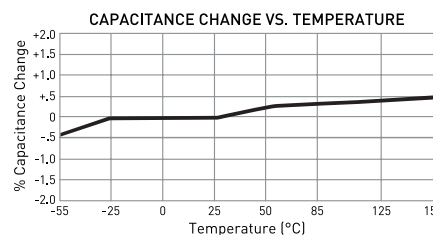
340D Series

Available in round shape with axial-lead wrap and fill

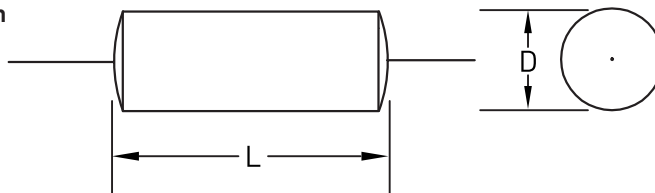
Features

- Protective clear wrap offered on all wrap and fill units; add .010" to maximum D dimensions for protective clear wrap
- Foil construction and standard tin-coated copper-clad steel leads; nickel, copper, dumet and other special leads available
- Potting material and endfills meet or exceed the flammability requirements of UL94V0
- Compliance and certification to worldwide and other environmental standards available upon request; available in Non-RoHS construction only
- 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

Typical Dielectric Characteristic Curves



Wrap and Fill Round Configuration



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

LEAD LENGTH: 2.0" ± .50"

50 VOLT DC/32 VAC					100 VOLT DC/63 VAC					200 VOLT DC/125 VAC					400 VOLT DC/240 VAC				
MFD.	PART NO.	DIMENSIONS		LEAD SIZE (AWG)	PART NO.	DIMENSIONS		LEAD SIZE (AWG)	PART NO.	DIMENSIONS		LEAD SIZE (AWG)	PART NO.	DIMENSIONS		LEAD SIZE (AWG)			
		D	L			D	L			D	L			D	L				
.0010	340D1A102*	.15	.40	24	340D1B102*	.15	.40	24	340D1C102*	.15	.40	24	340D1E102*	.15	.40	24			
.0018	340D1A182*	.15	.40	24	340D1B182*	.15	.40	24	340D1C182*	.15	.40	24	340D1E182*	.15	.40	24			
.0022	340D1A222*	.15	.40	24	340D1B222*	.15	.40	24	340D1C222*	.15	.40	24	340D1E222*	.15	.40	24			
.0027	340D1A272*	.15	.40	24	340D1B272*	.15	.40	24	340D1C272*	.15	.40	24	340D1E272*	.15	.40	24			
.0033	340D1A332*	.15	.40	24	340D1B332*	.15	.40	24	340D1C332*	.15	.40	24	340D1E332*	.15	.40	24			
.0039	340D1A392*	.15	.40	24	340D1B392*	.15	.40	24	340D1C392*	.15	.40	24	340D1E392*	.16	.40	24			
.0047	340D1A472*	.15	.40	24	340D1B472*	.15	.40	24	340D1C472*	.15	.40	24	340D1E472*	.17	.40	24			
.0056	340D1A562*	.15	.40	24	340D1B562*	.15	.40	24	340D1C562*	.15	.40	24	340D1E562*	.15	.56	24			
.0068	340D1A682*	.15	.40	24	340D1B682*	.15	.40	24	340D1C682*	.15	.40	24	340D1E682*	.15	.56	24			
.0082	340D1A822*	.15	.40	24	340D1B822*	.15	.40	24	340D1C822*	.15	.40	24	340D1E822*	.15	.56	24			
.010	340D1A103*	.15	.40	24	340D1B103*	.15	.40	24	340D1C103*	.15	.40	24	340D1E103*	.17	.56	24			
.012	340D1A123*	.15	.40	24	340D1B123*	.15	.40	24	340D1C123*	.15	.40	24	340D1E123*	.18	.56	24			
.015	340D1A153*	.15	.40	24	340D1B153*	.15	.40	24	340D1C153*	.15	.40	24	340D1E153*	.20	.56	24			
.018	340D1A183*	.15	.40	24	340D1B183*	.15	.40	24	340D1C183*	.16	.40	24	340D1E183*	.22	.56	24			
.022	340D1A223*	.15	.40	24	340D1B223*	.15	.40	24	340D1C223*	.17	.40	24	340D1E223*	.24	.56	24			
.027	340D1A273*	.15	.40	24	340D1B273*	.15	.40	24	340D1C273*	.15	.53	24	340D1E273*	.27	.56	24			
.033	340D1A333*	.15	.40	24	340D1B333*	.15	.40	24	340D1C333*	.15	.53	24	340D1E333*	.29	.56	24			
.039	340D1A393*	.15	.40	24	340D1B393*	.15	.40	24	340D1C393*	.16	.53	24	340D1E393*	.25	.69	24			
.047	340D1A473*	.15	.40	24	340D1B473*	.15	.40	24	340D1C473*	.17	.53	24	340D1E473*	.27	.69	24			
.056	340D1A563*	.15	.40	24	340D1B563*	.16	.40	24	340D1C563*	.19	.53	24	340D1E563*	.30	.69	24			
.068	340D1A683*	.15	.40	24	340D1B683*	.18	.40	24	340D1C683*	.21	.53	24	340D1E683*	.28	.81	24			
.082	340D1A823*	.15	.40	24	340D1B823*	.15	.53	24	340D1C823*	.22	.53	24	340D1E823*	.31	.81	24			
.10	340D1A104*	.15	.40	24	340D1B104*	.16	.53	24	340D1C104*	.24	.53	24	340D1E104*	.34	.81	24			
.12	340D1A124*	.15	.40	24	340D1B124*	.17	.53	24	340D1C124*	.27	.53	24	340D1E124*	.37	.81	22			
.15	340D1A154*	.16	.40	24	340D1B154*	.19	.53	24	340D1C154*	.29	.53	24	340D1E154*	.35	.95	22			
.18	340D1A184*	.15	.53	24	340D1B184*	.20	.53	24	340D1C184*	.27	.65	24	340D1E184*	.40	.95	22			
.22	340D1A224*	.15	.53	24	340D1B224*	.22	.53	24	340D1C224*	.29	.65	24	340D1E224*	.38	1.21	22			
.27	340D1A274*	.16	.53	24	340D1B274*	.24	.53	24	340D1C274*	.30	.78	24	340D1E274*	.42	1.21	22			
.33	340D1A334*	.18	.53	24	340D1B334*	.26	.53	24	340D1C334*	.33	.78	24	340D1E334*	.46	1.21	22			
.39	340D1A394*	.19	.53	24	340D1B394*	.29	.53	24	340D1C394*	.36	.78	22	340D1E394*	.50	1.21	20			
.47	340D1A474*	.20	.53	24	340D1B474*	.26	.65	24	340D1C474*	.39	.78	22	340D1E474*	.54	1.21	20			
.56	340D1A564*	.22	.53	24	340D1B564*	.29	.65	24	340D1C564*	.38	.90	22	340D1E564*	.59	1.21	20			
.68	340D1A684*	.24	.53	24	340D1B684*	.29	.78	24	340D1C684*	.38	1.15	22	340D1E684*	.63	1.46	20			
.82	340D1A824*	.26	.53	24	340D1B824*	.31	.78	24	340D1C824*	.39	1.15	22	340D1E824*	.62	1.72	20			
1.0	340D1A105*	.30	.53	24	340D1B105*	.34	.78	24	340D1C105*	.43	1.15	22	340D1E105*	.57	1.96	20			
1.2	340D1A125*	.26	.65	24	340D1B125*	.37	.78	22	340D1C125*	.46	1.15	22	340D1E125*	.63	1.96	20			
1.5	340D1A155*	.28	.65	24	340D1B155*	.37	.90	22	340D1C155*	.52	1.15	20	340D1E155*	.70	1.96	20			
1.8	340D1A185*	.29	.78	24	340D1B185*	.40	.90	22	340D1C185*	.56	1.15	20	340D1E185*	.76	1.96	20			
2.0	340D1A205*	.30	.78	24	340D1B205*	.38	1.15	22	340D1C205*	.61	1.15	20	340D1E205*	.81	1.96	20			
2.5	340D1A255*	.34	.78	24	340D1B255*	.42	1.15	22	340D1C255*	.58	1.40	20	340D1E255*	-	-	-			
3.0	340D1A305*	.37	.78	22	340D1B305*	.45	1.15	22	340D1C305*	.57	1.65	20	340D1E305*	-	-	-			
3.5	340D1A355*	.40	.78	22	340D1B355*	.48	1.15	20	340D1C355*	.61	1.65	20	340D1E355*	-	-	-			
4.0	340D1A405*	.37	.90	22	340D1B405*	.52	1.15	20	340D1C405*	.60	1.90	20	340D1E405*	-	-	-			
4.5	340D1A455*	.39	.90	22	340D1B455*	.55	1.15	20	340D1C455*	.64	1.90	20	340D1E455*	-	-	-			
5.0	340D1A505*	.36	1.15	22	340D1B505*	.58	1.15	20	340D1C505*	.67	1.90	20	340D1E505*	-	-	-			
6.0	340D1A605*	.39	1.15	22	340D1B605*	.62	1.15	20	340D1C605*	.73	1.90	20	340D1E605*	-	-	-			
8.0	340D1A805*	.45	1.15	22	340D1B805*	.63	1.40	20	340D1C805*	.85	1.90	20	340D1E805*	-	-	-			
10.0	340D1A106*	.50	1.15	20	340D1B106*	.64	1.65	20	340D1C106*	.94	1.90	20	340D1E106*	-	-	-			
12.0	340D1A126*	.54	1.15	20	340D1B126*	.65	1.90	20	340D1C126*	-	-	-	340D1E126*	-	-	-			
15.0	340D1A156*	.60	1.15	20	340D1B156*	.72	1.90	20	340D1C156*	-	-	-	340D1E156*	-	-	-			
18.0	340D1A186*	.58	1.40	20	340D1B186*	.78	1.90	20	340D1C186*	-	-	-	340D1E186*	-	-	-			
20.0	340D1A206*	.61	1.40	20	340D1B206*	.82	1.90	20	340D1C206*	-	-	-	340D1E206*	-	-	-			
30.0	340D1A306*	.67	1.65	20	340D1B306*	-	-	-	340D1C306*	-	-	-	340D1E306*	-	-	-			
40.0	340D1A406*	.77	1.65	20	340D1B406*	-	-	-	340D1C406*	-	-	-	340D1E406*	-	-	-			
50.0	340D1A506*	.85	1.65	20	340D1B506*	-	-	-	340D1C506*	-	-	-	340D1E506*	-	-	-			

* 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