

These unique high performance capacitors offer long life characteristics of kraft - mylar combined with an environment protecting hermetically sealed case.

Utilizing the newest and most modern equipment and processes, these capacitors are carefully manufactured resulting in an extremely small size with superior quality.

Units are available in axial-lead hermetic seal configurations in voltages of 200, 300, 400 and 600 VDC.

Five different case styles are offered. All capacitors feature extended foil construction and standard tin-coated copper leads.

Dimensional variations for all MFD values are available with the same volume to meet your design requirements.



## SPECIFICATIONS

**Temperature:** -55°C to +100°C at rated voltage; to +125°C with 50% voltage derating.

**Capacitance Stability:** Maximum change in capacity from nominal values at 25°C  $\pm 6\%$  over a temperature range of -55°C to +125°C.

**Dielectric Strength:** Will withstand the application of twice rated voltage at 25°C for a period of time to exceed two minutes. Current should be limited to a maximum of 5 mA.

**Life Test:** Capacitors shall withstand a test of 250 hours at 125°C and 140% of DC voltage with current limited to 1 ampere maximum per MIL-C-14157B.

**Dissipation Factor:** Measurement frequency for capacitance and dissipation factor shall be 1000 Hz for values to 1 mfd; 120 Hz for values over 1 mfd.

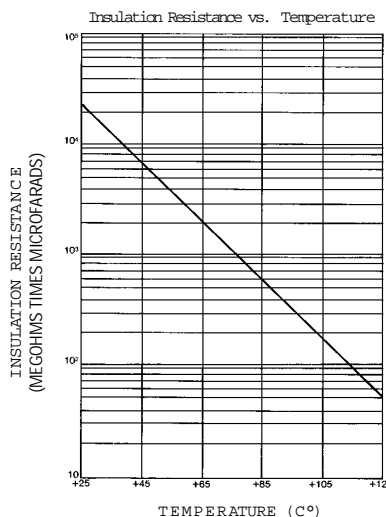
**Acceptance Criteria:** Shall not exceed 1% at 25°C.

**Insulation Resistance:** At DC rated voltage or 500V, whichever is less, units shall meet the minimum values below:

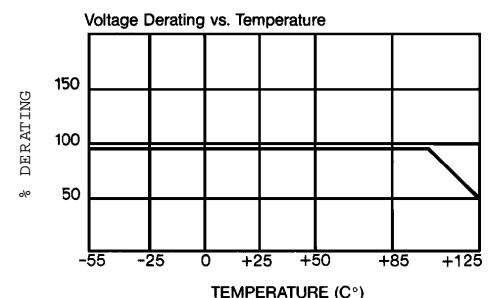
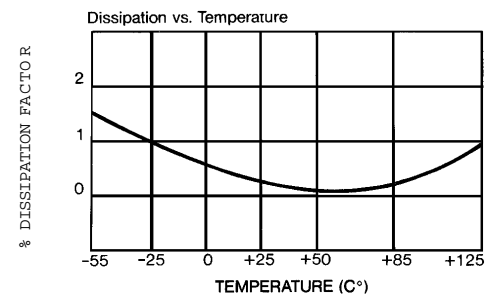
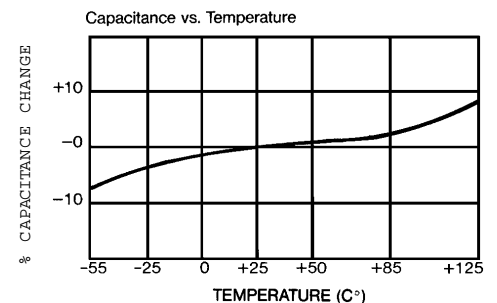
Temp. (°C)	MEG x MFDS		MEG (NEED NOT EXCEED)	
	200V	300V+	200V	300V+
25	25,000	50,000	50,000	100,000
85	2,500	5,000	5,000	10,000
100	1,000	2,000	2,000	4,000

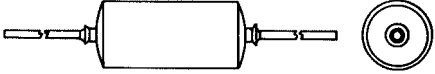
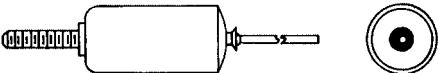

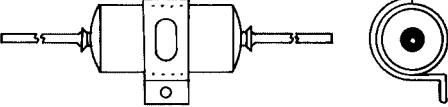
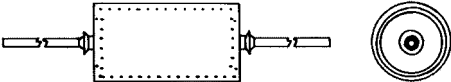
### NOTES:

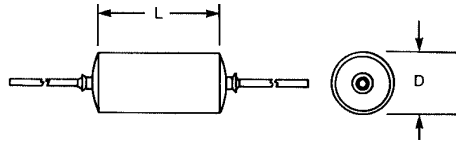
For styles and ratings not shown, or for unusual requirements necessitated by special circuit applications (including higher IR or lower DF), consult the factory direct.



### TYPICAL DIELECTRIC CHARACTERISTIC CURVES



SERIES NO.	DESCRIPTION
524D	<p>HERMETIC SEAL CASE STYLE D</p> 
524J	<p>HERMETIC SEAL CASE STYLE J</p> 
524K	<p>HERMETIC SEAL CASE STYLE K</p> 
524F	<p>HERMETIC SEAL CASE STYLE F</p> 
524E	<p>HERMETIC SEAL CASE STYLE E INSULATING SLEEVE</p> 

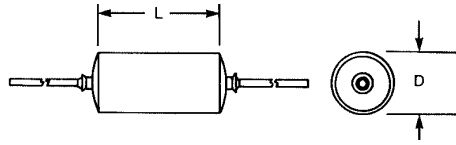

**WRAP AND FILL  
ROUND CONFIGURATION**

For max. D and L dimensions, allow  $+.050''$ .

LEAD LENGTH:  $2.0'' \pm .50''$ 

	400 VOLT DC				600 VOLT DC			
MFD	PART NO.	DIMENSIONS		LEAD SIZE (AWG)	PART NO.	DIMENSIONS		LEAD SIZE (AWG)
		D	L			D	L	
.0010	524D1E102*	.235	.812	22	524D1F102*	.235	.812	22
.0012	524D1E122*	.235	.812	22	524D1F102*	.235	.812	22
.0015	524D1E152*	.235	.812	22	524D1F102*	.235	.812	22
.0018	524D1E182*	.235	.812	22	524D1F102*	.312	.937	22
.0022	524D1E222*	.235	.812	22	524D1F102*	.312	.937	22
.0027	524D1E272*	.235	.812	22	524D1F102*	.312	.937	22
.0033	524D1E332*	.235	.812	22	524D1F102*	.312	.937	22
.0039	524D1E392*	.312	.937	22	524D1F102*	.312	.937	22
.0047	524D1E472*	.312	.937	22	524D1F472*	.312	1.062	22
.0056	524D1E562*	.312	.937	22	524D1F562*	.312	1.062	22
.0068	524D1E682*	.312	.937	22	524D1F682*	.312	1.062	22
.0082	524D1E822*	.312	.937	22	524D1F822*	.400	.937	20
.010	524D1E103*	.312	.937	22	524D1F103*	.400	1.062	20
.012	524D1E123*	.312	1.062	22	524D1F123*	.400	1.062	20
.015	524D1E153*	.312	1.062	22	524D1F153*	.400	1.187	20
.018	524D1E183*	.400	.937	20	524D1F183*	.400	1.187	20
.022	524D1E223*	.400	.937	20	524D1F223*	.400	1.562	20
.027	524D1E273*	.400	1.062	20	524D1F273*	.400	1.562	20
.033	524D1E333*	.400	1.062	20	524D1F333*	.400	1.562	20
.039	524D1E393*	.400	1.312	20	524D1F393*	.562	1.125	20
.047	524D1E473*	.400	1.312	20	524D1F473*	.562	1.375	20
.056	524D1E563*	.400	1.562	20	524D1F563*	.562	1.375	20
.068	524D1E683*	.400	1.562	20	524D1F683*	.562	1.750	20
.082	524D1E823*	.562	1.250	20	524D1F823*	.562	1.750	20
.10	524D1E104*	.562	1.250	20	524D1F104*	.562	1.750	20
.12	524D1E124*	.562	1.500	20	524D1F124*	.670	1.750	20
.15	524D1E154*	.562	1.500	20	524D1F154*	.670	1.675	20
.18	524D1E184*	.670	1.500	20	524D1F184*	.750	1.675	20
.22	524D1E224*	.670	1.500	20	524D1F224*	.750	2.625	20
.25	524D1E254*	.670	1.875	20	524D1F254*	.750	2.625	20
.27	524D1E274*	.670	1.875	20	524D1F274*	.750	2.625	20
.33	524D1E334*	.670	1.875	20	524D1F334*	.750	2.625	20
.39	524D1E394*	.750	2.125	20	524D1F394*	1.000	2.125	20
.47	524D1E474*	.750	2.125	20	524D1F474*	1.000	2.125	20
.50	524D1E504*	.750	2.625	20	524D1F504*	-	-	-
.56	524D1E564*	.750	2.625	20	524D1F564*	-	-	-
.68	524D1E684*	.750	2.625	20	524D1F684*	-	-	-
.75	524D1E754*	.750	2.625	20	524D1F754*	-	-	-
.82	524D1E824*	1.000	2.250	20	524D1F824*	-	-	-
1.0	524D1E105*	1.000	2.250	20	524D1F105*	-	-	-

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


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.022	524D1C223*	.312	.937	22	524D1D223*	.312	1.062	22
.027	524D1C273*	.312	1.062	22	524D1D273*	.400	.937	20
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.082	524D1C823*	.400	1.437	20	524D1D823*	.562	1.125	20
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.47	524D1C474*	.670	1.625	20	524D1D474*	.750	1.875	20
.50	524D1C504*	.670	1.625	20	524D1D504*	.750	1.875	20
.56	524D1C564*	.750	1.875	20	524D1D564*	.750	2.375	20
.68	524D1C684*	.750	1.875	20	524D1D684*	.750	2.375	20
.75	524D1C754*	.750	2.375	20	524D1D754*	1.000	2.125	20
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