

The unique high performance and long life characteristics of polyester account for the wide use of this miniature capacitor series. They can be used in varied applications requiring voltage ratings from 1000 to 10,000 VDC. Higher voltages are available on special order. A wide range of sizes and configurations are available. The dielectric materials used are polyester and kraft paper. You can choose from axial-lead wrap and fill in oval and round shapes.

These capacitors feature extended foil construction for 1000V units and tab construction for voltages 2000V

and up with standard tin-coated copper-clad steel leads. Nickel, copper, dumet and other special leads are available.

Protective clear wrap is offered on all wrap and fill units. Please add .010" to maximum T and W dimension for protective clear wrap.

The potting material and endfills of Electrocubes capacitors meet or exceed the flammability requirements of UL94V0.

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



## SPECIFICATIONS

**Temperature:** -55°C to +85°C at rated voltage; to +125°C with 60% voltage derating.

**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 hrs. at +125°C with not more than 1 failure in 12 permitted.

**Dissipation Factor:** Shall not exceed 1.0% at 25°C.

**Acceptance Criteria:** Measurement frequency for capacitance and dissipation factor shall be 1000 Hz for values up to 1 mfd and 120 Hz for values of 1.0 mfd and up.

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

TEMP. (°C)	MEG × MFDS	MEG (NEED NOT EXCEED)
25	20,000	100,000
85	500	20,000
125	30	3,000

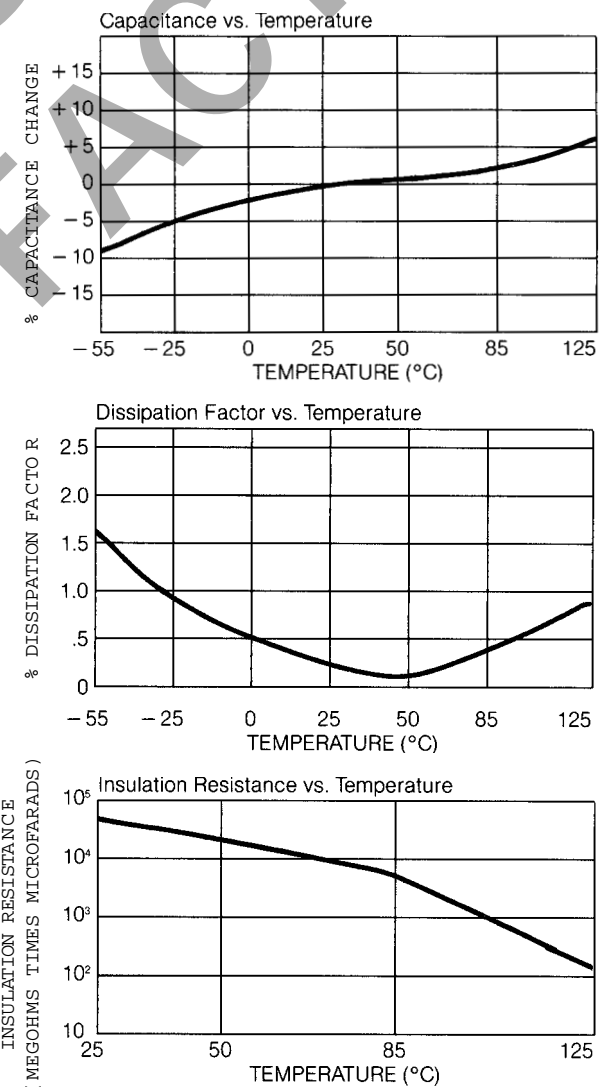
**NOTES:**

For information regarding insulating sleeves, mountings, special terminals, non-standard leads, circuit connections and other hardware, please consult factory.

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.

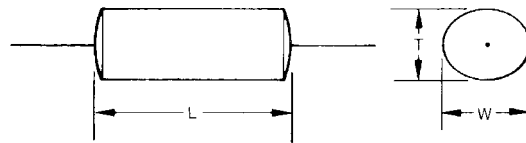
*All Electrocube film capacitors have endfills and tape that meet or exceed the flammability requirements of UL94V0.*

### TYPICAL DIELECTRIC CHARACTERISTIC CURVES



SERIES NO.	DESCRIPTION
520B	<b>FLAME RETARDANT WRAP AND FILL, OVAL</b> 

LIMITED SUPPLY  
CONSULT FACTORY


**WRAP AND FILL  
OVAL CONFIGURATION**

For max. T, W and L dimensions, allow +.050".

LEAD LENGTH: 2.0" ± .50"

1 000 VOLT DC						2 000 VOLT DC				
MFD	PART NO.	DIMENSIONS			LEAD SIZE (AWG)	PART NO.	DIMENSIONS			LEAD SIZE (AWG)
		T	W	L			T	W	L	
.001	520B1G102*	.12	.32	1.0	22	520B1J102*	.12	.35	1.0	22
.002	520B1G202*	.16	.36	1.0	22	520B1J202*	.19	.39	1.0	22
.003	520B1G302*	.19	.39	1.0	22	520B1J302*	.25	.45	1.0	22
.005	520B1G502*	.21	.41	1.0	22	520B1J502*	.23	.43	1.3	22
.01	520B1G103*	.33	.53	1.0	22	520B1J103*	.34	.54	1.3	22
.02	520B1G203*	.33	.53	1.3	20	520B1J203*	.40	.60	1.5	20
.03	520B1G303*	.41	.61	1.3	20	520B1J303*	.52	.72	1.5	20
.05	520B1G503*	.43	.63	1.5	20	520B1J503*	.45	.65	2.3	20
.10	520B1G104*	.64	.84	1.5	20	520B1J104*	.55	.75	3.3	20
.20	520B1G204*	.79	.99	1.8	20	520B1J204*	.60	.90	4.3	20
.30	520B1G304*	1.01	1.21	1.8	20	520B1J304*	.76	1.06	4.3	20
.50	520B1G504*	.75	1.05	3.3	20	520B1J504*	1.02	1.32	4.3	18
1.0	520B1G105*	.93	1.23	4.3	20	520B1J105*	1.50	1.80	4.3	18

3 000 VOLT DC						5 000 VOLT DC				
MFD	PART NO.	DIMENSIONS			LEAD SIZE (AWG)	PART NO.	DIMENSIONS			LEAD SIZE (AWG)
		T	W	L			T	W	L	
.001	520B1L102*	.20	.40	1.0	20	520B1N102*	.20	.40	1.3	20
.002	520B1L202*	.26	.46	1.0	20	520B1N202*	.27	.50	1.3	20
.003	520B1L302*	.33	.53	1.0	20	520B1N302*	.35	.55	1.3	20
.005	520B1L502*	.31	.51	1.3	20	520B1N502*	.45	.65	1.3	20
.01	520B1L103*	.46	.66	1.3	20	520B1N103*	.52	.72	1.5	20
.02	520B1L203*	.55	.75	1.5	20	520B1N203*	.67	.87	1.8	20
.03	520B1L303*	.68	.88	1.5	20	520B1N303*	.67	.87	2.3	20
.05	520B1L503*	.61	.81	2.3	20	520B1N503*	.88	1.08	2.3	20
.10	520B1L104*	.68	.88	3.3	20	520B1N104*	.98	1.18	3.3	18
.20	520B1L204*	.78	1.08	4.3	20	520B1N204*	1.13	1.43	4.3	18
.30	520B1L304*	1.00	1.30	4.3	18	520B1N304*	1.42	1.72	4.3	18
.50	520B1L504*	1.33	1.63	4.3	18	520B1N504*	1.87	2.17	4.3	18
1.0	520B1L105*	1.95	2.25	4.3	18	-	-	-	-	-

8 000 VOLT DC						1 0 000 VOLT DC				
MFD	PART NO.	DIMENSIONS			LEAD SIZE (AWG)	PART NO.	DIMENSIONS			LEAD SIZE (AWG)
		T	W	L			T	W	L	
.001	520B1Y102*	.35	.55	1.8	20	520B1S102*	.40	.60	1.8	20
.002	520B1Y202*	.50	.70	1.8	20	520B1S202*	.60	.80	1.8	20
.003	520B1Y302*	.60	.80	1.8	20	520B1S302*	.60	.80	2.0	20
.005	520B1Y502*	.65	.85	2.0	20	520B1S502*	.66	.86	2.5	20
.01	520B1Y103*	.78	.98	2.5	20	520B1S103*	.98	1.18	2.5	20
.02	520B1Y203*	.78	.98	3.5	20	520B1S203*	.98	1.18	3.5	20
.03	520B1Y303*	.99	1.19	3.5	20	520B1S303*	1.23	1.43	3.5	20
.05	520B1Y503*	1.02	1.32	4.5	18	520B1S503*	1.29	1.59	4.5	18
.10	520B1Y104*	1.50	1.80	4.5	18	520B1S104*	1.87	2.17	4.5	18

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