

# ELECTRON PRODUCTS INC.

MYLAR AND FOIL CAPACITORS

ENGINEERING DATA SHEET

SERIES **E**

## ENVIRONMENTAL DATA

### APPLICATIONS

Series E Mylar (Polyester) and Foil Capacitors are superior general purpose capacitors for both AC and DC applications. They are dry-section, non-polar, non-inductive wound capacitors with high volumetric efficiency and a low cost.

Series E Capacitors come in several styles: Oval Wrap & Fill; Round Wrap & Fill (EC Style); Axial Epoxy Case (EE Style); Radial Epoxy Case (E2E Style); Rectangular Hermetically Sealed (EG Style); Round Hermetically Sealed (EL Style). They are available in our Regular as well as custom sizes to meet specific customer requirements.

Contact our Engineering Department for special sizes, configurations, capacitance values and AC applications with Anti-Corona construction at all frequencies. Custom metal enclosures are available. Custom designed Feed Through capacitors (EQ Style) are also available for filter applications to specific requirements.

### OPERATING TEMPERATURE RANGE

Range: -55°C to +125°C with voltage derating, 100% of listed voltage rating from -55°C to +85°C, derate linearly to 50% of the listed voltage rating at +125°C.

### LIFE TEST

Series E capacitors shall be capable of withstanding a test of 1000 hours at +125°C and 100% of the derated DC voltage or a test of 250 hours at +125°C and 140% of the derated DC voltage. The voltage shall be applied to each capacitor through its individual current-limiting resistor as determined from the formula  $R = 0.025/C$ , where C is the nominal capacitance in farads and R is in ohms.

The test procedures shall be in accordance with MIL-C-19978, except as noted herein. Not more than one failure in twelve shall be permitted. Any one of the following shall be considered a failure.

- A change in capacitance of more than  $\pm 10\%$  from its initial value.
- An increase in Dissipation Factor to a value greater than the initial acceptance limit.
- A decrease in Insulation Resistance to a value less than 30% of the acceptance limit for 25°C.
- A permanent short or open.

### VIBRATION

Series E capacitors shall be capable of withstanding a vibration test in accordance with MIL-STD-202, Method 201. The following details and exceptions shall apply:

a. **Mounting.** The capacitor body shall be rigidly mounted by the entire body length to the vibration test fixture. The leads shall be soldered to rigidly supported terminals and so spaced that the length of each lead from the capacitor is  $1/2 \pm 1/8$  inch from the edge of the supporting terminal.

b. **Measurement during Vibration.** During the last cycle in each direction, an electrical measurement shall be made to detect intermittent contacts or open or short circuiting.

c. **Examination After Vibration.** Capacitors shall be visibly examined for evidence of mechanical damage.

### MOISTURE RESISTANCE

Series E capacitor Styles EG and EL (hermetically sealed in metal containers) shall be capable of withstanding the moisture resistance, humidity, and temperature and immersion cycling or MIL-C-19978. Styles EE and E2E (epoxy encased) and Styles E and EC (wrap & fill) capacitors are not intended for exposure to high humidity conditions over extended periods of time.

### TERMINAL STRENGTH

Series E capacitors utilize tin-plated, copper-clad steel wire terminals which shall be capable of withstanding the following test without mechanical damage to the capacitor or terminals:

a. **Pull Test.** The capacitor shall withstand a steady pull of 5 pounds axially to the leads for 1 minute.

b. **Bend Test.** The wire lead terminals shall be bent at a point of 1/4 inch from the body of the capacitor, first 90 degrees in one direction, then back to the original position, and then 90 degrees in the opposite direction.

# MYLAR AND FOIL WRAP AND FILL, OVAL AXIAL LEAD CAPACITORS

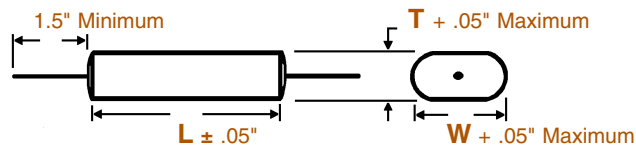


# E

MYLAR & FOIL  
WRAP & FILL, OVAL  
REGULAR SERIES

**DIMENSIONS** See tables for specific T, W, L values.

**WIRE SIZE** (Length 1.5" Minimum)



BODY LENGTH (L)	WIRE SIZE	
	AWG No.	Diameter
≤ 0.71"	24	0.020"
> 0.71" ≤ 1.25"	22	0.025"
> 1.25"	20	0.032"

## ORDERING DESCRIPTION

Capacitor, fixed: Mylar (Polyester) dielectric; extended foil construction; tin-plated copper-clad steel wire axial leads; encased in skin-tight plastic wrap with epoxy end fill.

## APPLICATION NOTES

Wrap & Fill capacitors are not intended for exposure to high humidity conditions over extended periods of time. For stringent environmental conditions, Wrap & Fill capacitors should be used in encapsulated or hermetically sealed circuitry.

**SELECTION AND ORDERING TABLES** Select voltage rating, capacitance and tolerance, read Part Number to the right.

MFD	100VDC 70VAC				200VDC 120VAC				400VDC 160VAC				600VDC 230VAC			
	T	W	L	PART #	T	W	L	PART #	T	W	L	PART #	T	W	L	PART #
RATING	+ .05"	+ .05"	± .05"		+ .05"	+ .05"	± .05"		+ .05"	+ .05"	± .05"		+ .05"	+ .05"	± .05"	
.001	.11	.23	.55	E1-102E	.11	.23	.55	E2-102E	.11	.23	.55	E4-102E	.11	.23	.55	E6-102E
.0012	.11	.23	.55	E1-122E	.11	.23	.55	E2-122E	.11	.23	.55	E4-122E	.11	.23	.55	E6-122E
.0015	.11	.23	.55	E1-152E	.11	.23	.55	E2-152E	.11	.23	.55	E4-152E	.11	.23	.55	E6-152E
.0018	.11	.23	.55	E1-182E	.11	.23	.55	E2-182E	.11	.23	.55	E4-182E	.11	.23	.55	E6-182E
.0022	.11	.23	.55	E1-222E	.11	.23	.55	E2-222E	.11	.23	.55	E4-222E	.11	.23	.55	E6-222E
.0027	.11	.23	.55	E1-272E	.11	.23	.55	E2-272E	.11	.23	.55	E4-272E	.11	.23	.55	E6-272E
.0033	.11	.23	.55	E1-332E	.11	.23	.55	E2-332E	.11	.23	.55	E4-332E	.11	.23	.55	E6-332E
.0039	.11	.23	.55	E1-392E	.11	.23	.55	E2-392E	.11	.23	.55	E4-392E	.11	.23	.55	E6-392E
.0047	.11	.23	.55	E1-472E	.11	.23	.55	E2-472E	.11	.23	.55	E4-472E	.11	.23	.65	E6-472E
.0056	.11	.23	.55	E1-562E	.11	.23	.55	E2-562E	.11	.23	.55	E4-562E	.11	.23	.65	E6-562E
.0068	.11	.23	.55	E1-682E	.11	.23	.55	E2-682E	.11	.23	.55	E4-682E	.11	.23	.65	E6-682E
.0082	.11	.23	.55	E1-822E	.11	.23	.55	E2-822E	.11	.23	.65	E4-822E	.12	.25	.75	E6-822E
.01	.11	.23	.55	E1-103E	.11	.23	.55	E2-103E	.11	.23	.65	E4-103E	.15	.38	.75	E6-103E
.012	.11	.23	.55	E1-123E	.11	.23	.55	E2-123E	.11	.23	.65	E4-123E	.19	.35	.75	E6-123E
.015	.11	.23	.55	E1-153E	.11	.23	.65	E2-153E	.12	.25	.65	E4-153E	.19	.36	.75	E6-153E
.018	.11	.23	.55	E1-183E	.11	.23	.65	E2-183E	.15	.28	.75	E4-183E	.23	.37	.75	E6-183E
.022	.11	.23	.55	E1-223E	.11	.23	.65	E2-223E	.19	.32	.75	E4-223E	.26	.39	.75	E6-223E
.027	.11	.23	.65	E1-273E	.12	.25	.65	E2-273E	.19	.32	.75	E4-273E	.29	.43	.75	E6-273E
.033	.11	.23	.65	E1-333E	.15	.28	.65	E2-333E	.23	.36	.75	E4-333E	.25	.46	1.00	E6-333E
.039	.11	.23	.65	E1-393E	.15	.28	.75	E2-393E	.23	.36	.75	E4-393E	.28	.43	1.00	E6-393E
.047	.11	.23	.75	E1-473E	.18	.31	.75	E2-473E	.26	.39	.75	E4-473E	.32	.46	1.00	E6-473E
.056	.12	.25	.75	E1-563E	.19	.32	.75	E2-563E	.24	.37	1.00	E4-563E	.34	.49	1.00	E6-563E
.068	.15	.28	.75	E1-683E	.23	.36	.75	E2-683E	.27	.40	1.00	E4-683E	.38	.53	1.00	E6-683E
.082	.19	.32	.75	E1-823E	.26	.39	.75	E2-823E	.29	.42	1.00	E4-823E	.34	.57	1.25	E6-823E
.10	.19	.32	.75	E1-104E	.29	.42	.75	E2-104E	.33	.46	1.00	E4-104E	.38	.53	1.25	E6-104E
.12	.23	.36	.75	E1-124E	.32	.45	.75	E2-124E	.37	.50	1.00	E4-124E	.35	.55	1.50	E6-124E
.15	.25	.38	.75	E1-154E	.36	.49	.75	E2-154E	.42	.55	1.00	E4-154E	.40	.55	1.50	E6-154E
.18	.23	.36	1.00	E1-184E	.31	.44	1.00	E2-184E	.38	.51	1.25	E4-184E	.43	.63	1.50	E6-184E
.22	.25	.38	1.00	E1-224E	.35	.48	1.00	E2-224E	.42	.55	1.25	E4-224E	.49	.65	1.50	E6-224E
.25	.27	.40	1.00	E1-254E	.31	.45	1.25	E2-254E	.42	.55	1.35	E4-254E	.47	.76	1.75	E6-254E
.27	.28	.41	1.00	E1-274E	.34	.47	1.25	E2-274E	.44	.57	1.35	E4-274E	.50	.76	1.75	E6-274E
.33	.32	.45	1.00	E1-334E	.37	.50	1.25	E2-334E	.49	.62	1.35	E4-334E	.55	.79	1.75	E6-334E
.39	.35	.48	1.00	E1-394E	.39	.52	1.25	E2-394E	.47	.63	1.50	E4-394E	.51	.85	2.00	E6-394E
.47	.40	.53	1.00	E1-474E	.44	.57	1.25	E2-474E	.54	.70	1.50	E4-474E	.57	.85	2.00	E6-474E
.50	.40	.53	1.00	E1-504E	.46	.59	1.25	E2-504E	.54	.70	1.50	E4-504E	.59	.85	2.00	E6-504E
.56	.37	.50	1.25	E1-564E	.39	.55	1.50	E2-564E	.52	.68	1.75	E4-564E	.58	.85	2.25	E6-564E
.68	.40	.53	1.25	E1-684E	.44	.60	1.50	E2-684E	.58	.74	1.75	E4-684E	.64	.85	2.25	E6-684E
.75	.33	.50	1.50	E1-754E	.42	.58	1.75	E2-754E	.53	.75	2.00	E4-754E	.68	.85	2.25	E6-754E
.82	.36	.52	1.50	E1-824E	.44	.60	1.75	E2-824E	.56	.77	2.00	E4-824E	.72	.85	2.25	E6-824E
1.0	.42	.58	1.50	E1-105E	.49	.65	1.75	E2-105E	.63	.84	2.00	E4-105E	.80	.85	2.25	E6-105E
1.5	.53	.69	1.50	E1-155E	.54	.75	2.00	E2-155E	.72	.94	2.25	E4-155E	.87	.85	2.75	E6-155E
2.0	.55	.71	1.75	E1-205E	.53	.74	2.75	E2-205E	.85	1.06	2.25	E4-205E	1.02	.85	2.75	E6-205E
3.0	.69	.85	1.75	E1-305E	.66	.88	2.75	E2-305E	.92	1.14	2.75	E4-305E	1.27	.85	2.75	E6-305E
5.0	.64	.86	2.75	E1-505E	.85	1.12	2.75	E2-505E	1.21	1.42	2.75	E4-505E	1.65	.85	2.75	E6-505E

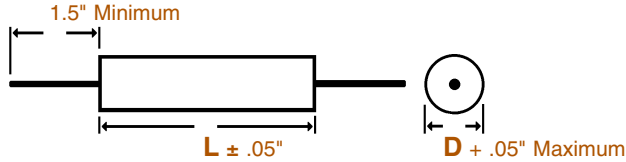
Note: Replace the last digit E with the desired tolerance code from the tolerance table. For an in-between value use the next larger value's dimensions. Custom sizes are readily available. All dimensions are in inches. All +.05" dimension tolerances are Maximum.

# MYLAR AND FOIL WRAP AND FILL, ROUND AXIAL LEAD CAPACITORS



**EC**  
MYLAR & FOIL  
WRAP & FILL, ROUND  
REGULAR SERIES

**DIMENSIONS** See tables for specific **D**, **L** values.



**WIRE SIZE** (Length 1.5" Minimum)

BODY LENGTH (L)	WIRE SIZE	
	AWG No.	Diameter
≤ 0.71"	24	0.020"
> 0.71" ≤ 1.25"	22	0.025"
> 1.25"	20	0.032"

## ORDERING DESCRIPTION

Capacitor, fixed: Mylar (Polyester) dielectric; extended foil construction; tin-plated copper-clad steel wire axial leads; encased in skin-tight plastic wrap with epoxy end fill.

## APPLICATION NOTES

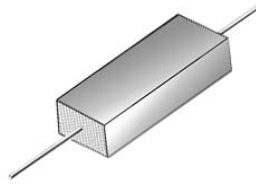
Wrap & Fill capacitors are not intended for exposure to high humidity conditions over extended periods of time. For stringent environmental conditions, Wrap & Fill capacitors should be used in encapsulated or hermetically sealed circuitry.

**SELECTION AND ORDERING TABLES** Select voltage rating, capacitance and tolerance, read Part Number to the right.

MFD	100VDC 70VAC			200VDC 120VAC			400VDC 160VAC			600VDC 230VAC		
	RATING	D	L	PART #	D	L	PART #	D	L	PART #	D	L
	+ .05"	± .05"		+ .05"	± .05"		+ .05"	± .05"		+ .05"	± .05"	
.001	.15	.55	EC1-102E	.15	.55	EC2-102E	.15	.55	EC4-102E	.15	.55	EC6-102E
.0012	.15	.55	EC1-122E	.15	.55	EC2-122E	.15	.55	EC4-122E	.15	.55	EC6-122E
.0015	.15	.55	EC1-152E	.15	.55	EC2-152E	.15	.55	EC4-152E	.15	.55	EC6-152E
.0018	.15	.55	EC1-182E	.15	.55	EC2-182E	.15	.55	EC4-182E	.17	.55	EC6-182E
.0022	.15	.55	EC1-222E	.15	.55	EC2-222E	.16	.55	EC4-222E	.19	.55	EC6-222E
.0027	.15	.55	EC1-272E	.15	.55	EC2-272E	.17	.55	EC4-272E	.21	.55	EC6-272E
.0033	.15	.55	EC1-332E	.15	.55	EC2-332E	.18	.55	EC4-332E	.19	.55	EC6-332E
.0039	.15	.55	EC1-392E	.15	.55	EC2-392E	.19	.55	EC4-392E	.20	.55	EC6-392E
.0047	.15	.55	EC1-472E	.16	.55	EC2-472E	.21	.55	EC4-472E	.22	.65	EC6-472E
.0056	.16	.55	EC1-562E	.17	.55	EC2-562E	.23	.55	EC4-562E	.24	.65	EC6-562E
.0068	.17	.55	EC1-682E	.19	.55	EC2-682E	.20	.55	EC4-682E	.26	.65	EC6-682E
.0082	.18	.55	EC1-822E	.20	.55	EC2-822E	.22	.65	EC4-822E	.28	.75	EC6-822E
.01	.19	.55	EC1-103E	.22	.55	EC2-103E	.24	.65	EC4-103E	.30	.75	EC6-103E
.012	.21	.55	EC1-123E	.20	.55	EC2-123E	.26	.65	EC4-123E	.30	.75	EC6-123E
.015	.23	.55	EC1-153E	.22	.65	EC2-153E	.29	.65	EC4-153E	.33	.75	EC6-153E
.018	.25	.55	EC1-183E	.24	.65	EC2-183E	.28	.75	EC4-183E	.33	.75	EC6-183E
.022	.22	.55	EC1-223E	.26	.65	EC2-223E	.30	.75	EC4-223E	.35	.75	EC6-223E
.027	.24	.65	EC1-273E	.28	.65	EC2-273E	.30	.75	EC4-273E	.38	.75	EC6-273E
.033	.26	.65	EC1-333E	.31	.65	EC2-333E	.32	.75	EC4-333E	.41	1.00	EC6-333E
.039	.25	.65	EC1-393E	.30	.75	EC2-393E	.36	.75	EC4-393E	.39	1.00	EC6-393E
.047	.27	.75	EC1-473E	.32	.75	EC2-473E	.39	.75	EC4-473E	.42	1.00	EC6-473E
.056	.29	.75	EC1-563E	.31	.75	EC2-563E	.42	1.00	EC4-563E	.45	1.00	EC6-563E
.068	.32	.75	EC1-683E	.34	.75	EC2-683E	.40	1.00	EC4-683E	.49	1.00	EC6-683E
.082	.35	.75	EC1-823E	.37	.75	EC2-823E	.43	1.00	EC4-823E	.54	1.25	EC6-823E
.10	.38	.75	EC1-104E	.40	.75	EC2-104E	.47	1.00	EC4-104E	.52	1.25	EC6-104E
.12	.42	.75	EC1-124E	.38	.75	EC2-124E	.51	1.00	EC4-124E	.56	1.50	EC6-124E
.15	.47	.75	EC1-154E	.42	.75	EC2-154E	.56	1.00	EC4-154E	.56	1.50	EC6-154E
.18	.45	1.00	EC1-184E	.45	1.00	EC2-184E	.54	1.25	EC4-184E	.61	1.50	EC6-184E
.22	.49	1.00	EC1-224E	.49	1.00	EC2-224E	.59	1.25	EC4-224E	.67	1.50	EC6-224E
.25	.54	1.00	EC1-254E	.54	1.25	EC2-254E	.59	1.35	EC4-254E	.74	1.75	EC6-254E
.27	.54	1.00	EC1-274E	.54	1.25	EC2-274E	.59	1.35	EC4-274E	.74	1.75	EC6-274E
.33	.59	1.00	EC1-334E	.59	1.25	EC2-334E	.64	1.35	EC4-334E	.74	1.75	EC6-334E
.39	.53	1.00	EC1-394E	.53	1.25	EC2-394E	.69	1.50	EC4-394E	.81	2.00	EC6-394E
.47	.56	1.00	EC1-474E	.53	1.25	EC2-474E	.76	1.50	EC4-474E	.81	2.00	EC6-474E
.50	.49	1.00	EC1-504E	.57	1.25	EC2-504E	.83	1.50	EC4-504E	.81	2.00	EC6-504E
.56	.49	1.25	EC1-564E	.57	1.50	EC2-564E	.83	1.75	EC4-564E	.81	2.25	EC6-564E
.68	.54	1.25	EC1-684E	.62	1.50	EC2-684E	.90	1.75	EC4-684E	.81	2.25	EC6-684E
.75	.58	1.50	EC1-754E	.68	1.75	EC2-754E	.90	2.00	EC4-754E	.81	2.25	EC6-754E
.82	.58	1.50	EC1-824E	.68	1.75	EC2-824E	.90	2.00	EC4-824E	.81	2.25	EC6-824E
1.0	.64	1.50	EC1-105E	.74	1.75	EC2-105E	.90	2.00	EC4-105E	.81	2.25	EC6-105E
1.5	.71	1.50	EC1-155E	.83	2.00	EC2-155E	.90	2.25	EC4-155E	.81	2.75	EC6-155E
2.0	.71	1.75	EC1-205E	.83	2.75	EC2-205E	.90	2.25	EC4-205E	.81	2.75	EC6-205E
3.0	.71	1.75	EC1-305E	.83	2.75	EC2-305E	.90	2.75	EC4-305E	.81	2.75	EC6-305E
5.0	.71	2.75	EC1-505E	.83	2.75	EC2-505E	.90	2.75	EC4-505E	.81	2.75	EC6-505E

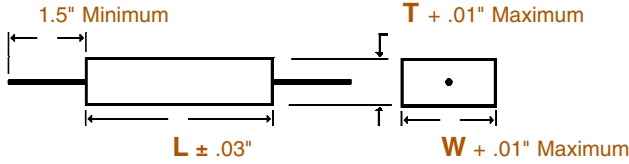
Note: Replace the last digit **E** with the desired tolerance code from the tolerance table. For an in-between value use the next larger value's dimensions. Custom sizes are readily available. All dimensions are in inches. All +.05" dimension tolerances are Maximum.

# MYLAR AND FOIL EPOXY CASE, AXIAL LEAD, RECTANGULAR CAPACITORS



**EE**  
MYLAR & FOIL  
EPOXY CASE, AXIAL, RECT.  
REGULAR SERIES

**DIMENSIONS** See tables for specific T, W, L values.



**WIRE SIZE** (Length 1.5" Minimum)

BODY LENGTH (L)	WIRE SIZE	
	AWG No.	Diameter
≤ 0.67"	24	0.020"
> 0.67" ≤ 1.06"	22	0.025"
> 1.06"	20	0.032"

## ORDERING DESCRIPTION

Capacitor, fixed: Mylar (Polyester) dielectric; extended foil construction; tin-plated copper-clad steel wire axial leads; encased in a molded epoxy/plastic shell with epoxy fill.

## APPLICATION NOTES

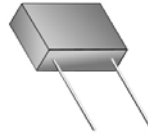
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**SELECTION AND ORDERING TABLES** Select voltage rating, capacitance and tolerance, read Part Number to the right.

MFD	100VDC 70VAC				200VDC 120VAC				400VDC 160VAC				600VDC 230VAC						
	RATING	T	W	L	PART #	T	W	L	PART #	T	W	L	PART #	T	W	L	PART #		
	+ .01"	+ .01"	± .03"		+ .01"	+ .01"	± .03"		+ .01"	+ .01"	± .03"		+ .01"	+ .01"	± .03"		+ .01"	+ .01"	± .03"
.001	.17	.29	.57	EE1-102E	.17	.29	.57	EE2-102E	.17	.29	.57	EE4-102E	.17	.29	.57	EE6-102E			
.0012	.17	.29	.57	EE1-122E	.17	.29	.57	EE2-122E	.17	.29	.57	EE4-122E	.23	.36	.55	EE6-122E			
.0015	.17	.29	.57	EE1-152E	.17	.29	.57	EE2-152E	.17	.29	.57	EE4-152E	.23	.36	.55	EE6-152E			
.0018	.17	.29	.57	EE1-182E	.17	.29	.57	EE2-182E	.17	.29	.57	EE4-182E	.23	.36	.55	EE6-182E			
.0022	.17	.29	.57	EE1-222E	.17	.29	.57	EE2-222E	.23	.36	.55	EE4-222E	.29	.42	.67	EE6-222E			
.0027	.17	.29	.57	EE1-272E	.17	.29	.57	EE2-272E	.23	.36	.55	EE4-272E	.29	.42	.67	EE6-272E			
.0033	.17	.29	.57	EE1-332E	.17	.29	.57	EE2-332E	.23	.36	.55	EE4-332E	.29	.42	.67	EE6-332E			
.0039	.17	.29	.57	EE1-392E	.17	.29	.57	EE2-392E	.23	.36	.55	EE4-392E	.29	.42	.67	EE6-392E			
.0047	.17	.29	.57	EE1-472E	.17	.29	.57	EE2-472E	.29	.42	.67	EE4-472E	.29	.42	.67	EE6-472E			
.0056	.17	.29	.57	EE1-562E	.17	.29	.57	EE2-562E	.29	.42	.67	EE4-562E	.29	.42	.67	EE6-562E			
.0068	.17	.29	.57	EE1-682E	.23	.36	.57	EE2-682E	.29	.42	.67	EE4-682E	.29	.42	.67	EE6-682E			
.0082	.17	.29	.57	EE1-822E	.23	.36	.55	EE2-822E	.29	.42	.67	EE4-822E	.29	.42	.67	EE6-822E			
.01	.17	.29	.57	EE1-103E	.23	.36	.55	EE2-103E	.29	.42	.67	EE4-103E	.29	.42	.67	EE6-103E			
.012	.23	.36	.55	EE1-123E	.23	.36	.55	EE2-123E	.29	.42	.67	EE4-123E	.29	.42	.75	EE6-123E			
.015	.23	.36	.55	EE1-153E	.29	.42	.67	EE2-153E	.29	.42	.67	EE4-153E	.29	.42	.75	EE6-153E			
.018	.23	.36	.55	EE1-183E	.29	.42	.67	EE2-183E	.29	.42	.67	EE4-183E	.29	.42	.75	EE6-183E			
.022	.23	.36	.55	EE1-223E	.29	.42	.67	EE2-223E	.29	.42	.75	EE4-223E	.29	.42	.88	EE6-223E			
.027	.29	.42	.67	EE1-273E	.29	.42	.67	EE2-273E	.29	.42	.75	EE4-273E	.29	.42	1.06	EE6-273E			
.033	.29	.42	.67	EE1-333E	.29	.42	.67	EE2-333E	.29	.42	.88	EE4-333E	.29	.42	1.06	EE6-333E			
.039	.29	.42	.67	EE1-393E	.29	.42	.67	EE2-393E	.29	.42	.88	EE4-393E	.39	.54	1.04	EE6-393E			
.047	.29	.42	.67	EE1-473E	.29	.42	.75	EE2-473E	.29	.42	1.06	EE4-473E	.39	.54	1.04	EE6-473E			
.056	.29	.42	.67	EE1-563E	.29	.42	.75	EE2-563E	.29	.42	1.06	EE4-563E	.39	.54	1.04	EE6-563E			
.068	.29	.42	.67	EE1-683E	.29	.42	.75	EE2-683E	.39	.54	1.04	EE4-683E	.56	.72	.88	EE6-683E			
.082	.29	.42	.75	EE1-823E	.29	.42	.88	EE2-823E	.39	.54	1.04	EE4-823E	.56	.72	.88	EE6-823E			
.10	.29	.42	.75	EE1-104E	.29	.42	1.06	EE2-104E	.39	.54	1.04	EE4-104E	.56	.72	1.04	EE6-104E			
.12	.29	.42	.75	EE1-124E	.29	.42	1.06	EE2-124E	.56	.72	.88	EE4-124E	.56	.72	1.04	EE6-124E			
.15	.29	.42	.88	EE1-154E	.39	.54	1.04	EE2-154E	.56	.72	.88	EE4-154E	.56	.72	1.56	EE6-154E			
.18	.29	.42	1.06	EE1-184E	.39	.54	1.04	EE2-184E	.56	.72	1.04	EE4-184E	.56	.72	1.56	EE6-184E			
.22	.29	.42	1.06	EE1-224E	.39	.54	1.04	EE2-224E	.56	.72	1.04	EE4-224E	.56	.72	1.56	EE6-224E			
.25	.39	.54	1.04	EE1-254E	.56	.72	.88	EE2-254E	.56	.72	1.56	EE4-254E	.56	.72	1.56	EE6-254E			
.27	.39	.54	1.04	EE1-274E	.56	.72	.88	EE2-274E	.56	.72	1.56	EE4-274E	.56	.72	1.56	EE6-274E			
.33	.39	.54	1.04	EE1-334E	.56	.72	.88	EE2-334E	.56	.72	1.56	EE4-334E	.56	.72	1.90	EE6-334E			
.39	.39	.54	1.04	EE1-394E	.56	.72	1.04	EE2-394E	.56	.72	1.56	EE4-394E	.56	.72	1.56	EE6-394E			
.47	.56	.72	.88	EE1-474E	.56	.72	1.17	EE2-474E	.56	.72	1.56	EE4-474E	.56	.72	1.56	EE6-474E			
.50	.56	.72	.88	EE1-504E	.56	.72	1.17	EE2-504E	.56	.72	1.81	EE4-504E	.56	.72	1.56	EE6-504E			
.56	.56	.72	.88	EE1-564E	.56	.72	1.17	EE2-564E	.56	.72	1.81	EE4-564E	.56	.72	1.56	EE6-564E			
.68	.56	.72	1.04	EE1-684E	.56	.72	1.56	EE2-684E	.56	.72	1.56	EE4-684E	.56	.72	1.56	EE6-684E			
.75	.56	.72	1.04	EE1-754E	.56	.72	1.56	EE2-754E	.56	.72	1.56	EE4-754E	.56	.72	1.56	EE6-754E			
.82	.56	.72	1.04	EE1-824E	.56	.72	1.56	EE2-824E	.56	.72	1.56	EE4-824E	.56	.72	1.56	EE6-824E			
1.0	.56	.72	1.56	EE1-105E	.56	.72	1.81	EE2-105E	.56	.72	1.81	EE4-105E	.56	.72	1.56	EE6-105E			
1.5	.56	.72	1.56	EE1-155E	.56	.72	1.56	EE2-155E	.56	.72	1.56	EE4-155E	.56	.72	1.56	EE6-155E			
2.0	.56	.72	1.90	EE1-205E	.56	.72	1.90	EE2-205E	.56	.72	1.90	EE4-205E	.56	.72	1.90	EE6-205E			

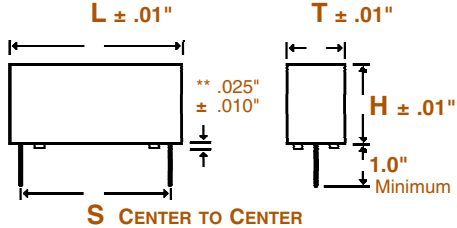
Note: Replace the last digit E with the desired tolerance code from the tolerance table. For an in-between value use the next larger value's dimensions. Custom sizes are readily available. All dimensions are in inches. All +.05" dimension tolerances are Maximum.

# MYLAR AND FOIL EPOXY CASE, RADIAL LEAD, RECTANGULAR CAPACITORS



**E2E**  
MYLAR & FOIL  
EPOXY CASE, RADIAL, RECT.  
REGULAR SERIES

**DIMENSIONS** See tables for specific T, H, L, S values.



\*\* The mounting pads consist of two individual pads on each end or one continuous pad on each end, depending on the mold. (Not an option).

**WIRE SIZE** (Length 1.0" Minimum)

BODY LENGTH (L)	LEAD SPACING (S) (C to C ± .01")	WIRE SIZE	
		AWG No.	Diameter
.42"	.300"	22	0.025"
.55"	.400"	22	0.025"
.67"	.500"	22	0.025"
.82"	.600"	22	0.025"
1.04"	.800"	22	0.025"
1.24"	1.100"	20	0.032"
1.75"	1.600"	20	0.032"

## ORDERING DESCRIPTION

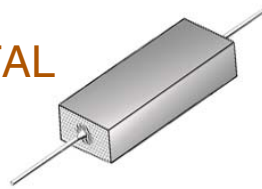
Capacitor, fixed: Mylar (Polyester) dielectric; extended foil construction; tin-plated copper-clad steel wire radial leads; encased in a molded epoxy/plastic shell with epoxy fill.

**SELECTION AND ORDERING TABLES** Select voltage rating, capacitance and tolerance, read Part Number to the right.

MFD	100VDC 70VAC				200VDC 120VAC				400VDC 160VAC				600VDC 230VAC			
	T	H	L	PART #	T	H	L	PART #	T	H	L	PART #	T	H	L	PART #
.001	.18	.30	.55	E2E1-102E	.18	.30	.55	E2E2-102E	.18	.30	.55	E2E4-102E	.18	.30	.55	E2E6-102E
.0012	.18	.30	.55	E2E1-122E	.18	.30	.55	E2E2-122E	.18	.30	.55	E2E4-122E	.18	.30	.55	E2E6-122E
.0015	.18	.30	.55	E2E1-152E	.18	.30	.55	E2E2-152E	.18	.30	.55	E2E4-152E	.18	.30	.55	E2E6-152E
.0018	.24	.37	.55	E2E1-182E	.24	.37	.55	E2E2-182E	.24	.37	.55	E2E4-182E	.24	.37	.55	E2E6-182E
.0022	.24	.37	.55	E2E1-222E	.24	.37	.55	E2E2-222E	.24	.37	.55	E2E4-222E	.24	.37	.55	E2E6-222E
.0027	.24	.37	.55	E2E1-272E	.24	.37	.55	E2E2-272E	.24	.37	.55	E2E4-272E	.30	.43	.55	E2E6-272E
.0033	.24	.37	.55	E2E1-332E	.24	.37	.55	E2E2-332E	.24	.37	.55	E2E4-332E	.30	.43	.55	E2E6-332E
.0039	.24	.37	.55	E2E1-392E	.24	.37	.55	E2E2-392E	.24	.37	.55	E2E4-392E	.30	.43	.55	E2E6-392E
.0047	.24	.37	.55	E2E1-472E	.24	.37	.55	E2E2-472E	.30	.43	.55	E2E4-472E	.30	.43	.67	E2E6-472E
.0056	.24	.37	.55	E2E1-562E	.24	.37	.55	E2E2-562E	.30	.43	.55	E2E4-562E	.30	.43	.67	E2E6-562E
.0068	.24	.37	.55	E2E1-682E	.24	.37	.55	E2E2-682E	.30	.43	.55	E2E4-682E	.30	.43	.67	E2E6-682E
.0082	.24	.37	.55	E2E1-822E	.30	.43	.55	E2E2-822E	.30	.43	.67	E2E4-822E	.30	.43	.82	E2E6-822E
.01	.24	.37	.55	E2E1-103E	.30	.43	.55	E2E2-103E	.30	.43	.67	E2E4-103E	.30	.43	.82	E2E6-103E
.012	.24	.37	.55	E2E1-123E	.30	.43	.55	E2E2-123E	.30	.43	.67	E2E4-123E	.30	.43	.82	E2E6-123E
.015	.30	.43	.55	E2E1-153E	.30	.43	.67	E2E2-153E	.30	.43	.82	E2E4-153E	.40	.55	.82	E2E6-153E
.018	.30	.43	.55	E2E1-183E	.30	.43	.67	E2E2-183E	.30	.43	.82	E2E4-183E	.40	.55	.82	E2E6-183E
.022	.30	.43	.55	E2E1-223E	.30	.43	.67	E2E2-223E	.30	.43	.82	E2E4-223E	.40	.55	.82	E2E6-223E
.027	.30	.43	.67	E2E1-273E	.30	.43	.82	E2E2-273E	.40	.55	.82	E2E4-273E	.40	.55	1.04	E2E6-273E
.033	.30	.43	.67	E2E1-333E	.30	.43	.82	E2E2-333E	.40	.55	.82	E2E4-333E	.40	.55	1.04	E2E6-333E
.039	.30	.43	.67	E2E1-393E	.30	.43	.82	E2E2-393E	.40	.55	.82	E2E4-393E	.40	.55	1.24	E2E6-393E
.047	.30	.43	.67	E2E1-473E	.40	.55	.82	E2E2-473E	.40	.55	1.04	E2E4-473E	.40	.55	1.24	E2E6-473E
.056	.30	.43	.82	E2E1-563E	.40	.55	.82	E2E2-563E	.40	.55	1.24	E2E4-563E	.57	.73	1.24	E2E6-563E
.068	.30	.43	.82	E2E1-683E	.40	.55	.82	E2E2-683E	.40	.55	1.24	E2E4-683E	.57	.73	1.24	E2E6-683E
.082	.40	.55	.82	E2E1-823E	.40	.55	1.04	E2E2-823E	.40	.55	1.24	E2E4-823E	.57	.73	1.24	E2E6-823E
.10	.40	.55	.82	E2E1-104E	.40	.55	1.04	E2E2-104E	.57	.73	1.24	E2E4-104E	.57	.73	1.75	E2E6-104E
.12	.40	.55	.82	E2E1-124E	.40	.55	1.24	E2E2-124E	.57	.73	1.24	E2E4-124E	.57	.73	1.75	E2E6-124E
.15	.40	.55	1.04	E2E1-154E	.40	.55	1.24	E2E2-154E	.57	.73	1.24	E2E4-154E	.57	.73	1.75	E2E6-154E
.18	.40	.55	1.24	E2E1-184E	.57	.73	1.24	E2E2-184E	.57	.73	1.75	E2E4-184E	.75	.59	1.95	E2E6-184E
.22	.40	.55	1.24	E2E1-224E	.57	.73	1.24	E2E2-224E	.57	.73	1.75	E2E4-224E	.75	.75	1.95	E2E6-224E
.25	.40	.55	1.24	E2E1-254E	.57	.73	1.24	E2E2-254E	.57	.73	1.75	E2E4-254E	.75	.89	1.95	E2E6-254E
.27	.40	.55	1.24	E2E1-274E	.57	.73	1.24	E2E2-274E	.57	.73	1.75	E2E4-274E	.75	.89	1.95	E2E6-274E
.33	.57	.73	1.24	E2E1-334E	.57	.73	1.75	E2E2-334E	.75	.59	1.95	E2E4-334E	.75	.99	1.95	E2E6-334E
.39	.57	.73	1.24	E2E1-394E	.57	.73	1.75	E2E2-394E	.75	.75	1.95	E2E4-394E	.75	1.09	1.95	E2E6-394E
.47	.57	.73	1.24	E2E1-474E	.57	.73	1.75	E2E2-474E	.75	.89	1.95	E2E4-474E	.75	.89	1.95	E2E6-474E
.50	.57	.73	1.24	E2E1-504E	.75	.59	1.95	E2E2-504E	.75	1.09	1.95	E2E4-504E	.75	1.09	1.95	E2E6-504E
.56	.57	.73	1.24	E2E1-564E	.75	.59	1.95	E2E2-564E	.75	1.09	1.95	E2E4-564E	.75	1.09	1.95	E2E6-564E
.68	.57	.73	1.75	E2E1-684E	.75	.75	1.95	E2E2-684E	.75	.89	1.95	E2E4-684E	.75	.89	1.95	E2E6-684E
.75	.57	.73	1.75	E2E1-754E	.75	.89	1.95	E2E2-754E	.75	.89	1.95	E2E4-754E	.75	.89	1.95	E2E6-754E
.82	.57	.73	1.75	E2E1-824E	.75	.89	1.95	E2E2-824E	.75	.89	1.95	E2E4-824E	.75	.89	1.95	E2E6-824E
1.0	.75	.59	1.95	E2E1-105E	.75	1.09	1.95	E2E2-105E	.75	1.09	1.95	E2E4-105E	.75	1.09	1.95	E2E6-105E
1.5	.75	.89	1.95	E2E1-155E	.75	.89	1.95	E2E2-155E	.75	.89	1.95	E2E4-155E	.75	.89	1.95	E2E6-155E
2.0	.75	1.09	1.95	E2E1-205E	.75	1.09	1.95	E2E2-205E	.75	1.09	1.95	E2E4-205E	.75	1.09	1.95	E2E6-205E
3.0	.75	.89	1.95	E2E1-305E	.75	.89	1.95	E2E2-305E	.75	.89	1.95	E2E4-305E	.75	.89	1.95	E2E6-305E
5.0	.75	.89	1.95	E2E1-505E	.75	.89	1.95	E2E2-505E	.75	.89	1.95	E2E4-505E	.75	.89	1.95	E2E6-505E

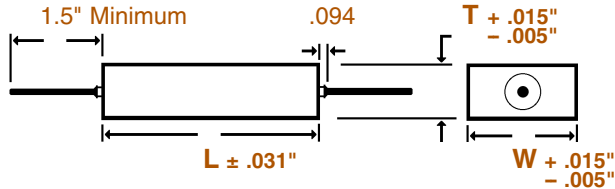
Note: Replace the last digit E with the desired tolerance code from the tolerance table. For an in-between value use the next larger value's dimensions. Custom sizes are readily available. All dimensions are in inches. All +.05" dimension tolerances are Maximum.

# MYLAR AND FOIL HERMETICALLY SEALED, METAL CASED, RECTANGULAR CAPACITORS



**EG**  
MYLAR & FOIL  
HERMETIC SEAL, RECT.  
REGULAR SERIES

**DIMENSIONS** See tables for specific T, W, L values.



**WIRE SIZE** (Length 1.5" Minimum)

BODY SIZE (T) x (W)	WIRE SIZE	
	AWG No.	Diameter
.22" x .34"	24	0.020"
.31" x .41"	22	0.025"
.40" x .57" & Larger	20	0.032"

## ORDERING DESCRIPTION

Capacitor, fixed: Mylar (Polyester) dielectric; extended foil construction; tin-plated copper-clad steel wire axial leads; encased in a hermetically sealed rectangular tin plated brass tube with soldered glass to metal end seals.

## APPLICATION NOTES

Metal encased capacitors are hermetically sealed and meet the moisture resistance, temperature and immersion cycling requirements of MIL-C-19978.

**SELECTION AND ORDERING TABLES** Select voltage rating, capacitance and tolerance, read Part Number to the right.

MFD	100VDC 70VAC				200VDC 120VAC				400VDC 160VAC				600VDC 230VAC			
	T	W	L	PART #	T	W	L	PART #	T	W	L	PART #	T	W	L	PART #
	+ .015" - .005"	+ .015" - .005"	± .031"		+ .015" - .005"	+ .015" - .005"	± .031"		+ .015" - .005"	+ .015" - .005"	± .031"		+ .015" - .005"	+ .015" - .005"	± .031"	
.001	.22	.34	.688	EG1-102E	.22	.34	.688	EG2-102E	.22	.34	.688	EG4-102E	.22	.34	.688	EG6-102E
.0012	.22	.34	.688	EG1-122E	.22	.34	.688	EG2-122E	.22	.34	.688	EG4-122E	.22	.34	.688	EG6-122E
.0015	.22	.34	.688	EG1-152E	.22	.34	.688	EG2-152E	.22	.34	.688	EG4-152E	.22	.34	.688	EG6-152E
.0018	.22	.34	.688	EG1-182E	.22	.34	.688	EG2-182E	.22	.34	.688	EG4-182E	.22	.34	.688	EG6-182E
.0022	.22	.34	.688	EG1-222E	.22	.34	.688	EG2-222E	.22	.34	.688	EG4-222E	.22	.34	.688	EG6-222E
.0027	.22	.34	.688	EG1-272E	.22	.34	.688	EG2-272E	.22	.34	.688	EG4-272E	.22	.34	.688	EG6-272E
.0033	.22	.34	.688	EG1-332E	.22	.34	.688	EG2-332E	.22	.34	.688	EG4-332E	.22	.34	.688	EG6-332E
.0039	.22	.34	.688	EG1-392E	.22	.34	.688	EG2-392E	.22	.34	.688	EG4-392E	.22	.34	.688	EG6-392E
.0047	.22	.34	.688	EG1-472E	.22	.34	.688	EG2-472E	.22	.34	.688	EG4-472E	.22	.34	.688	EG6-472E
.0056	.22	.34	.688	EG1-562E	.22	.34	.688	EG2-562E	.22	.34	.688	EG4-562E	.22	.34	.688	EG6-562E
.0068	.22	.34	.688	EG1-682E	.22	.34	.688	EG2-682E	.22	.34	.688	EG4-682E	.22	.34	.688	EG6-682E
.0082	.22	.34	.688	EG1-822E	.22	.34	.688	EG2-822E	.22	.34	.688	EG4-822E	.22	.34	.688	EG6-822E
.01	.22	.34	.688	EG1-103E	.22	.34	.688	EG2-103E	.22	.34	.688	EG4-103E	.22	.34	.813	EG6-103E
.012	.22	.34	.688	EG1-123E	.22	.34	.688	EG2-123E	.22	.34	.813	EG4-123E	.22	.34	.938	EG6-123E
.015	.22	.34	.688	EG1-153E	.22	.34	.688	EG2-153E	.22	.34	.813	EG4-153E	.22	.34	1.125	EG6-153E
.018	.22	.34	.688	EG1-183E	.22	.34	.688	EG2-183E	.22	.34	.813	EG4-183E	.22	.34	1.125	EG6-183E
.022	.22	.34	.688	EG1-223E	.22	.34	.688	EG2-223E	.22	.34	.938	EG4-223E	.31	.41	.938	EG6-223E
.027	.22	.34	.688	EG1-273E	.22	.34	.688	EG2-273E	.22	.34	.938	EG4-273E	.31	.41	.938	EG6-273E
.033	.22	.34	.688	EG1-333E	.22	.34	.813	EG2-333E	.22	.34	1.125	EG4-333E	.31	.41	1.125	EG6-333E
.039	.22	.34	.688	EG1-393E	.22	.34	.813	EG2-393E	.31	.41	1.125	EG4-393E	.31	.41	1.125	EG6-393E
.047	.22	.34	.813	EG1-473E	.22	.34	.938	EG2-473E	.31	.41	.938	EG4-473E	.31	.41	1.313	EG6-473E
.056	.22	.34	.813	EG1-563E	.22	.34	1.125	EG2-563E	.31	.41	.938	EG4-563E	.31	.41	1.313	EG6-563E
.068	.22	.34	.813	EG1-683E	.22	.34	1.125	EG2-683E	.31	.41	1.125	EG4-683E	.40	.57	1.125	EG6-683E
.082	.22	.34	.938	EG1-823E	.31	.41	.938	EG2-823E	.31	.41	1.313	EG4-823E	.40	.57	1.125	EG6-823E
.10	.22	.34	1.125	EG1-104E	.31	.41	.938	EG2-104E	.40	.57	1.125	EG4-104E	.40	.57	1.313	EG6-104E
.12	.22	.34	1.125	EG1-124E	.31	.41	1.125	EG2-124E	.40	.57	1.125	EG4-124E	.40	.57	1.563	EG6-124E
.15	.31	.41	.938	EG1-154E	.31	.41	1.313	EG2-154E	.40	.57	1.313	EG4-154E	.40	.57	1.813	EG6-154E
.18	.31	.41	.938	EG1-184E	.31	.41	1.313	EG2-184E	.40	.57	1.313	EG4-184E	.50	.65	1.563	EG6-184E
.22	.31	.41	1.125	EG1-224E	.40	.57	1.125	EG2-224E	.40	.57	1.563	EG4-224E	.50	.65	1.813	EG6-224E
.25	.31	.41	1.313	EG1-254E	.40	.57	1.125	EG2-254E	.40	.57	1.813	EG4-254E	.50	.65	2.063	EG6-254E
.27	.31	.41	1.313	EG1-274E	.40	.57	1.125	EG2-274E	.40	.57	1.813	EG4-274E	.50	.65	2.063	EG6-274E
.33	.40	.57	1.125	EG1-334E	.40	.57	1.313	EG2-334E	.50	.65	1.563	EG4-334E	.50	.65	2.313	EG6-334E
.39	.40	.57	1.125	EG1-394E	.40	.57	1.563	EG2-394E	.50	.65	1.813	EG4-394E	.60	.80	1.813	EG6-394E
.47	.40	.57	1.125	EG1-474E	.40	.57	1.813	EG2-474E	.50	.65	2.063	EG4-474E	.60	.80	2.063	EG6-474E
.50	.40	.57	1.125	EG1-504E	.40	.57	1.813	EG2-504E	.50	.65	2.063	EG4-504E	.60	.80	2.063	EG6-504E
.56	.40	.57	1.313	EG1-564E	.40	.57	1.813	EG2-564E	.60	.80	1.813	EG4-564E	.60	.80	2.313	EG6-564E
.68	.40	.57	1.563	EG1-684E	.50	.65	1.563	EG2-684E	.60	.80	1.813	EG4-684E	.60	.80	1.813	EG6-684E
.75	.40	.57	1.563	EG1-754E	.50	.65	1.813	EG2-754E	.60	.80	2.063	EG4-754E	.60	.80	2.063	EG6-754E
.82	.40	.57	1.563	EG1-824E	.50	.65	1.813	EG2-824E	.60	.80	2.063	EG4-824E	.60	.80	2.063	EG6-824E
1.0	.40	.57	1.813	EG1-105E	.50	.65	2.063	EG2-105E	.60	.80	2.313	EG4-105E	.60	.80	2.313	EG6-105E
1.5	.50	.65	1.813	EG1-155E	.60	.80	2.063	EG2-155E								
2.0	.50	.65	2.313	EG1-205E												
3.0	.60	.80	2.313	EG1-305E												

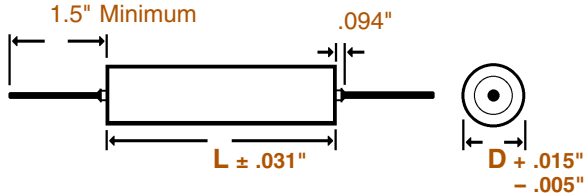
Note: Replace the last digit E with the desired tolerance code from the tolerance table. For an in-between value use the next larger value's dimensions. Custom sizes are readily available. All dimensions are in inches. All +.05" dimension tolerances are Maximum.

# MYLAR AND FOIL HERMETICALLY SEALED, ROUND, METAL CASED. CAPACITORS



**EL**  
MYLAR & FOIL  
HERMETIC SEAL, ROUND  
REGULAR SERIES

**DIMENSIONS** See tables for specific **D**, **L** values.



**WIRE SIZE** (Length 1.5" Minimum)

BODY DIAMETER (D)	WIRE SIZE	
	AWG No.	Diameter
.175" & .195"	24	0.020"
.235" & .312"	22	0.025"
.400" & Larger	20	0.032"

## ORDERING DESCRIPTION

Capacitor, fixed: Mylar (Polyester) dielectric; extended foil construction; tin-plated copper-clad steel wire axial leads; encased in a hermetically sealed round tin plated brass tube with soldered glass to metal end seals.

## APPLICATION NOTES

Metal encased capacitors are hermetically sealed and meet the moisture resistance, temperature and immersion cycling requirements of MIL-C-19978.

**SELECTION AND ORDERING TABLES** Select voltage rating, capacitance and tolerance, read Part Number to the right.

MFD	100VDC 70VAC			200VDC 120VAC			400VDC 160VAC			600VDC 230VAC			
	RATING	D	L	PART #	D	L	PART #	D	L	PART #	D	L	PART #
	+ .015" - .005"	± .031"		+ .015" - .005"	± .031"		+ .015" - .005"	± .031"		+ .015" - .005"	± .031"		
.001	.175	.750	EL1-102E	.175	.750	EL2-102E	.235	.750	EL4-102E	.235	.750	EL6-102E	
.0012	.175	.750	EL1-122E	.175	.750	EL2-122E	.235	.750	EL4-122E	.235	.750	EL6-122E	
.0015	.175	.750	EL1-152E	.175	.750	EL2-152E	.235	.750	EL4-152E	.235	.750	EL6-152E	
.0018	.175	.750	EL1-182E	.175	.750	EL2-182E	.235	.750	EL4-182E	.235	.750	EL6-182E	
.0022	.175	.750	EL1-222E	.175	.750	EL2-222E	.235	.750	EL4-222E	.235	.750	EL6-222E	
.0027	.175	.750	EL1-272E	.175	.750	EL2-272E	.235	.750	EL4-272E	.235	.750	EL6-272E	
.0033	.175	.750	EL1-332E	.175	.750	EL2-332E	.235	.750	EL4-332E	.235	.750	EL6-332E	
.0039	.175	.750	EL1-392E	.175	.750	EL2-392E	.235	.750	EL4-392E	.235	.750	EL6-392E	
.0047	.175	.750	EL1-472E	.175	.750	EL2-472E	.235	.750	EL4-472E	.235	.750	EL6-472E	
.0056	.175	.750	EL1-562E	.175	.750	EL2-562E	.235	.750	EL4-562E	.235	.875	EL6-562E	
.0068	.175	.750	EL1-682E	.175	.750	EL2-682E	.235	.750	EL4-682E	.235	.875	EL6-682E	
.0082	.175	.750	EL1-822E	.195	.750	EL2-822E	.235	.750	EL4-822E	.312	.875	EL6-822E	
.01	.175	.750	EL1-103E	.235	.750	EL2-103E	.235	.875	EL4-103E	.312	.875	EL6-103E	
.012	.175	.750	EL1-123E	.235	.750	EL2-123E	.235	.875	EL4-123E	.312	.875	EL6-123E	
.015	.195	.750	EL1-153E	.235	.750	EL2-153E	.312	.875	EL4-153E	.312	.875	EL6-153E	
.018	.235	.750	EL1-183E	.235	.875	EL2-183E	.312	.875	EL4-183E	.400	.875	EL6-183E	
.022	.235	.750	EL1-223E	.235	.875	EL2-223E	.312	.875	EL4-223E	.400	.875	EL6-223E	
.027	.235	.750	EL1-273E	.312	.875	EL2-273E	.312	.875	EL4-273E	.400	.875	EL6-273E	
.033	.235	.875	EL1-333E	.312	.875	EL2-333E	.400	.875	EL4-333E	.400	1.125	EL6-333E	
.039	.235	.875	EL1-393E	.312	.875	EL2-393E	.400	.875	EL4-393E	.400	1.125	EL6-393E	
.047	.235	.875	EL1-473E	.312	.875	EL2-473E	.400	.875	EL4-473E	.500	1.125	EL6-473E	
.056	.312	.875	EL1-563E	.400	.875	EL2-563E	.400	1.125	EL4-563E	.500	1.125	EL6-563E	
.068	.312	.875	EL1-683E	.400	.875	EL2-683E	.400	1.125	EL4-683E	.500	1.125	EL6-683E	
.082	.312	.875	EL1-823E	.400	.875	EL2-823E	.500	1.125	EL4-823E	.500	1.375	EL6-823E	
.10	.400	.875	EL1-104E	.400	1.125	EL2-104E	.500	1.125	EL4-104E	.500	1.375	EL6-104E	
.12	.400	.875	EL1-124E	.400	1.125	EL2-124E	.500	1.125	EL4-124E	.562	1.375	EL6-124E	
.15	.400	.875	EL1-154E	.400	1.125	EL2-154E	.500	1.375	EL4-154E	.562	1.625	EL6-154E	
.18	.400	1.125	EL1-184E	.500	1.125	EL2-184E	.500	1.375	EL4-184E	.562	1.625	EL6-184E	
.22	.400	1.125	EL1-224E	.500	1.125	EL2-224E	.562	1.375	EL4-224E	.670	1.625	EL6-224E	
.25	.400	1.125	EL1-254E	.500	1.125	EL2-254E	.562	1.625	EL4-254E	.670	1.625	EL6-254E	
.27	.400	1.125	EL1-274E	.500	1.125	EL2-274E	.562	1.625	EL4-274E	.670	1.875	EL6-274E	
.33	.500	1.125	EL1-334E	.500	1.375	EL2-334E	.670	1.625	EL4-334E	.750	1.875	EL6-334E	
.39	.500	1.125	EL1-394E	.562	1.375	EL2-394E	.670	1.625	EL4-394E	.750	1.875	EL6-394E	
.47	.500	1.375	EL1-474E	.562	1.375	EL2-474E	.670	1.625	EL4-474E	.750	2.125	EL6-474E	
.50	.500	1.375	EL1-504E	.562	1.625	EL2-504E	.670	1.875	EL4-504E	1.000	1.875	EL6-504E	
.56	.500	1.375	EL1-564E	.562	1.625	EL2-564E	.670	1.875	EL4-564E	1.000	1.875	EL6-564E	
.68	.562	1.375	EL1-684E	.670	1.625	EL2-684E	.750	1.875	EL4-684E	1.000	1.875	EL6-684E	
.75	.562	1.375	EL1-754E	.670	1.625	EL2-754E	.750	2.125	EL4-754E	1.000	1.875	EL6-754E	
.82	.562	1.625	EL1-824E	.670	1.625	EL2-824E	.750	2.125	EL4-824E	1.000	2.125	EL6-824E	
1.0	.562	1.625	EL1-105E	.670	1.875	EL2-105E	1.000	1.875	EL4-105E	1.000	2.375	EL6-105E	
1.5	.670	1.625	EL1-155E	.750	2.125	EL2-155E	1.000	2.125	EL4-155E				
2.0	.750	1.875	EL1-205E	1.000	1.875	EL2-205E	1.000	2.625	EL4-205E				
3.0	1.000	1.875	EL1-305E	1.000	2.125	EL2-305E							
5.0	1.000	2.125	EL1-505E										

Note: Replace the last digit **E** with the desired tolerance code from the tolerance table. For an in-between value use the next larger value's dimensions. Custom sizes are readily available. All dimensions are in inches. All +.05" dimension tolerances are Maximum.

# MYLAR AND FOIL CAPACITORS PARAMETRIC TREND CURVES AND ACCEPTANCE CRITERIA

SERIES **E**

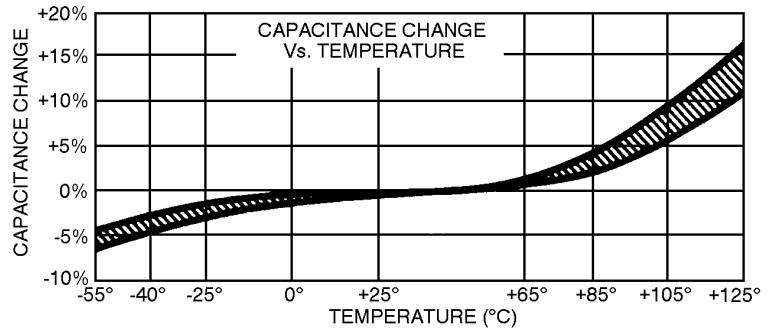
## CAPACITANCE

Reference MIL-STD-202, Method 305  
Test Frequency: 1000 Hz  
Temperature: +25°C

Capacitance Change Over  
Temperature.

Acceptance Limits:

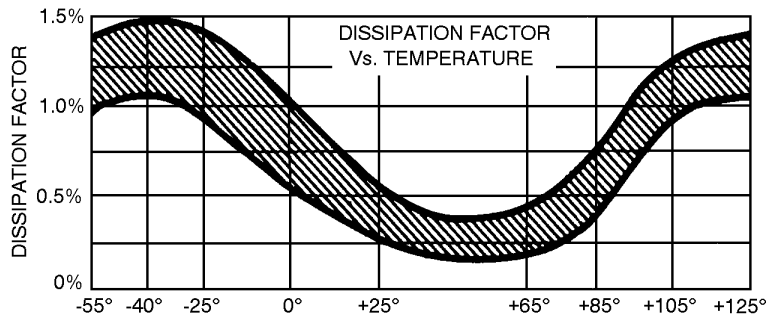
- @ -55°C = -7% Maximum Change
- @ +85°C = +5% Maximum Change
- @ +125°C = +16% Maximum Change



## DISSIPATION FACTOR

Reference MIL-STD-202,  
Method 306  
Test Frequency: 1000 Hz  
Temperature: +25°C

Acceptance Limit: 0.60% Maximum

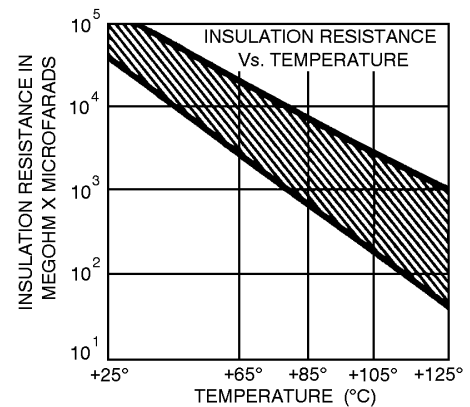


## INSULATION RESISTANCE

Reference MIL-STD-202, Method 302  
Electrification shall be at rated voltage  
or 500 VDC, whichever is less and for  
a time not greater than 2 minutes.

Acceptance Limits:

Test Temperature	Megs x $\mu$ f Minimum	Megohms Need not exceed
@ +25°C	50,000	100,000
@ +85°C	500	10,000
@ +125°C	50	1,000



## VOLTAGE RATING

100% of listed voltage rating from -55°C to +85°C, derate linearly to 50% of the listed voltage rating at +125°C.

## VOLTAGE TEST

Reference MIL-STD-202, Method 301. Surge current is limited to 1 ampere maximum. Voltage applied for 1 minute (maximum) @ +25°C. Ground test is performed terminal to case (where the case is not a terminal) at 200% of the DC voltage rating. Dielectric strength test is performed terminal to terminal at 200% of the DC voltage rating.