

The unique high performance and long life characteristics of polyester account for the varied applications of this miniature capacitor series. A wide range of sizes and configurations are available. You can choose from axial-lead wrap and fill, oval and round shapes and rectangular epoxy case with axial and radial leads.

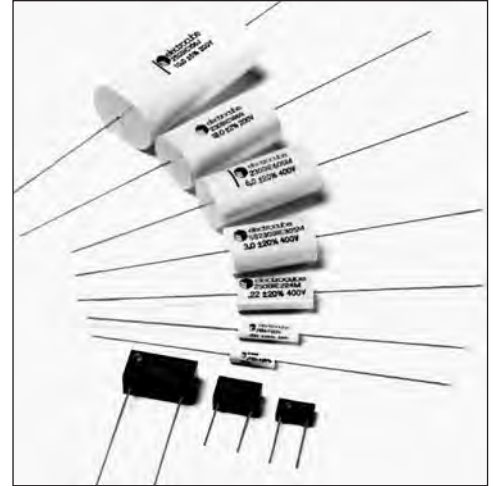
These capacitors feature extended foil construction and standard tin-coated copper-clad steel leads. Nickel, copper, dumet and other special

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 Electrocube's 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 50% voltage derating.

Dielectric Strength: Will withstand 150% at rated voltage and 25°C for a period not to exceed 1 minute; current limited to 5 mA.

Life Test: Will withstand 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.

Dielectric Absorption: Shall not exceed 0.5% at 25°C per MIL-C-19978.

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)	
	35V 100V	200V - up	35V 100V	200V - up
25	20,000	40,000	40,000	80,000
85	2,000	4,000	4,000	8,000
125	40	80	80	160

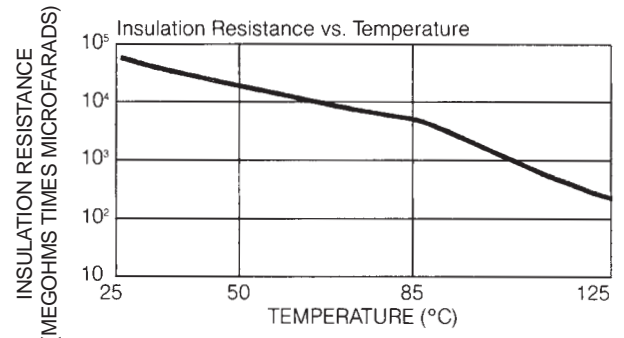
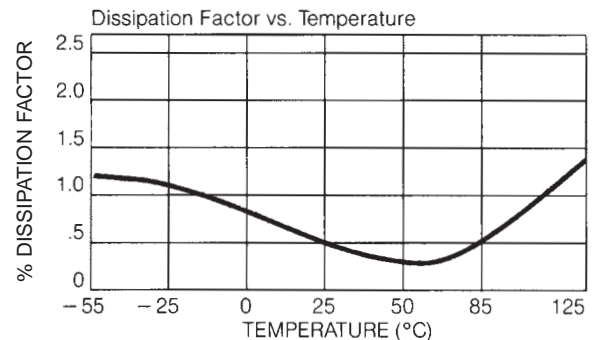
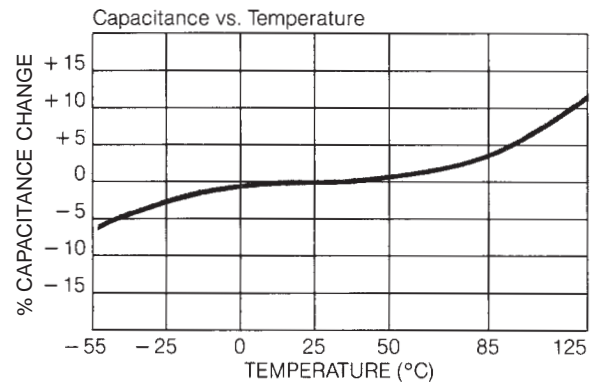
NOTES:

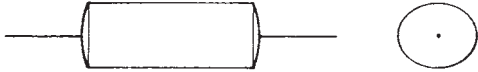


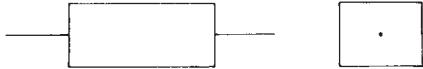
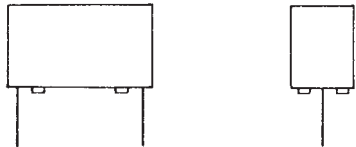
For information regarding insulating sleeves, mountings, special terminals, non-standard leads, circuit connections and other hardware, please consult factory.

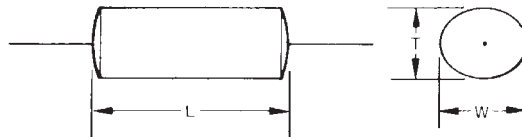
For styles and ratings not shown, or for unusual requirements necessitated by special circuit applications (including higher IR or lower DF), consult the factory direct.

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

TYPICAL DIELECTRIC CHARACTERISTIC CURVES



SERIES NO.	DESCRIPTION
230B	FLAME RETARDANT WRAP AND FILL, OVAL 
230C	FLAME RETARDANT WRAP AND FILL, FLAT 
230D	FLAME RETARDANT WRAP AND FILL, ROUND 
231A	FLAME RETARDANT EPOXY CASE, RECTANGULAR AXIAL LEADS 
232A	FLAME RETARDANT EPOXY CASE, RECTANGULAR RADIAL LEADS 



**WRAP AND FILL
OVAL CONFIGURATION**

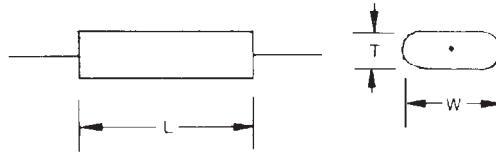
For max. T, W and L dimensions, allow +.050".

LEAD LENGTH: 2.0" ± .50"

400 VOLT DC						600 VOLT DC					1000 VOLT DC				
MFD	PART NO.	DIMENSIONS			LEAD SIZE (AWG)	PART NO.	DIMENSIONS			LEAD SIZE (AWG)	PART NO.	DIMENSIONS			LEAD SIZE (AWG)
		T	W	L			T	W	L			T	W	L	
.0010	230B1E102*	.09	.18	.40	26	230B1F102*	.09	.18	.40	26	230B1G102*				
.0012	230B1E122*	.09	.18	.40	26	230B1F122*	.09	.18	.40	26	230B1G122*				
.0015	230B1E152*	.09	.18	.40	26	230B1F152*	.09	.18	.40	26	230B1G152*				
.0018	230B1E182*	.09	.18	.40	26	230B1F182*	.09	.18	.40	26	230B1G182*				
.0022	230B1E222*	.09	.18	.40	26	230B1F222*	.09	.18	.40	26	230B1G222*				
.0027	230B1E272*	.09	.18	.40	26	230B1F272*	.10	.19	.40	26	230B1G272*				
.0033	230B1E332*	.09	.18	.40	26	230B1F332*	.09	.18	.53	26	230B1G332*				
.0039	230B1E392*	.09	.18	.40	26	230B1F392*	.09	.18	.53	26	230B1G392*				
.0047	230B1E472*	.09	.18	.40	26	230B1F472*	.09	.18	.53	26	230B1G472*				
.0056	230B1E562*	.10	.20	.40	26	230B1F562*	.09	.18	.53	26	230B1G562*				
.0068	230B1E682*	.11	.21	.40	26	230B1F682*	.11	.20	.53	26	230B1G682*				
.0082	230B1E822*	.09	.18	.53	26	230B1F822*	.12	.22	.53	24	230B1G822*				
.010	230B1E103*	.09	.18	.53	26	230B1F103*	.14	.23	.53	24	230B1G103*				
.012	230B1E123*	.09	.18	.53	26	230B1F123*	.15	.25	.53	24	230B1G123*				
.015	230B1E153*	.09	.18	.53	26	230B1F153*	.18	.27	.53	24	230B1G153*				
.018	230B1E183*	.11	.20	.53	26	230B1F183*	.20	.29	.53	24	230B1G183*				
.022	230B1E223*	.12	.22	.53	24	230B1F223*	.22	.32	.53	24	230B1G223*				
.027	230B1E273*	.14	.23	.53	24	230B1F273*	.20	.29	.68	24	230B1G273*				
.033	230B1E333*	.16	.25	.53	24	230B1F333*	.22	.31	.68	24	230B1G333*				
.039	230B1E393*	.17	.27	.53	24	230B1F393*	.20	.30	.78	24	230B1G393*				
.047	230B1E473*	.19	.29	.53	24	230B1F473*	.25	.32	.78	24	230B1G473*				
.056	230B1E563*	.22	.31	.53	24	230B1F563*	.25	.34	.78	24	230B1G563*				
.068	230B1E683*	.18	.27	.65	24	230B1F683*	.28	.37	.78	24	230B1G683*				
.082	230B1E823*	.20	.29	.65	24	230B1F823*	.31	.41	.78	22	230B1G823*				
.10	230B1E104*	.22	.32	.65	24	230B1F104*	.31	.40	.95	22	230B1G104*				
.12	230B1E124*	.20	.30	.78	24	230B1F124*	.24	.41	1.21	22	230B1G124*				
.15	230B1E154*	.23	.33	.78	24	230B1F154*	.28	.44	1.21	22	230B1G154*				
.18	230B1E184*	.26	.34	.78	24	230B1F184*	.31	.48	1.21	22	230B1G184*				
.22	230B1E224*	.29	.39	.78	24	230B1F224*	.35	.52	1.21	20	230B1G224*				
.27	230B1E274*	.33	.42	.78	22	230B1F274*	.40	.57	1.21	20	230B1G274*				
.33	230B1E334*	.32	.41	.90	22	230B1F334*	.45	.61	1.21	20	230B1G334*				
.39	230B1E394*	.25	.42	1.15	22	230B1F394*	.43	.59	1.45	20	230B1G394*				
.47	230B1E474*	.28	.45	1.15	22	230B1F474*	.48	.65	1.45	20	230B1G474*				
.56	230B1E564*	.31	.48	1.15	22	230B1F564*	.47	.63	1.70	20	230B1G564*				
.68	230B1E684*	.35	.52	1.15	20	230B1F684*	.47	.64	1.90	20	230B1G684*				
.82	230B1E824*	.39	.56	1.15	20	230B1F824*	.53	.70	1.90	20	230B1G824*				
1.0	230B1E105*	.44	.61	1.15	20	230B1F105*	.59	.76	1.90	20	230B1G105*				
1.2	230B1E125*	.42	.59	1.40	20	230B1F125*	.66	.82	1.90	20	230B1G125*				
1.5	230B1E155*	.48	.65	1.40	20	230B1F155*	.75	.91	1.90	20	230B1G155*				
1.8	230B1E185*	.47	.64	1.65	20	230B1F185*	.79	.96	1.90	20	230B1G185*				
2.0	230B1E205*	.45	.62	1.90	20	230B1F205*	.88	1.05	1.90	20	230B1G205*				
3.0	230B1E305*	.57	.74	1.90	20	230B1F305*	.99	1.15	2.21	20	230B1G305*				
4.0	230B1E405*	.68	.84	1.90	20	230B1F405*	1.15	1.32	2.21	20	230B1G405*				
5.0	230B1E505*	.77	.93	1.90	20	230B1F505*	1.25	1.43	2.21	20	230B1G505*				
6.0	230B1E605*	.83	.99	1.90	20	230B1F605*	1.42	1.60	2.21	20	230B1G605*				
8.0	230B1E805*	1.02	1.19	1.90	20	230B1F805*	1.64	1.80	2.21	20	230B1G805*				
10.0	230B1E106*	1.09	1.26	1.90	20	230B1F106*	1.74	2.13	2.21	20	230B1G106*				
12.0	230B1E126*	1.20	1.37	1.90	20	230B1F126*	-	-	-	-	230B1G126*				
15.0	230B1E156*	1.21	1.40	2.21	20	230B1F156*	-	-	-	-	230B1G156*				
18.0	230B1E186*	1.38	1.54	2.21	20	230B1F186*	-	-	-	-	230B1G186*				
20.0	230B1E206*	1.45	1.65	2.21	20	230B1F206*	-	-	-	-	230B1G206*				
30.0	230B1E306*	-	-	-	-	230B1F306*	-	-	-	-	230B1G306*				
40.0	230B1E406*	-	-	-	-	230B1F406*	-	-	-	-	230B1G406*				
50.0	230B1E506*	-	-	-	-	230B1F506*	-	-	-	-	230B1G506*				
75.0	230B1E756*	-	-	-	-	230B1F756*	-	-	-	-	230B1G756*				
100.0	230B1E1006*	-	-	-	-	230B1F1006*	-	-	-	-	230B1G1006*				

PLEASE CONSULT FACTORY

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



**WRAP AND FILL
FLAT CONFIGURATION**

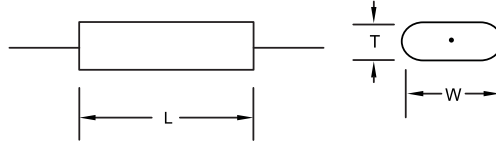
For max. T, W and L dimensions, allow $\pm .050"$.

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

35 VOLT DC				100 VOLT DC				200 VOLT DC							
MFD	PART NO.	DIMENSIONS			LEAD SIZE (AWG)	PART NO.	DIMENSIONS			LEAD SIZE (AWG)	PART NO.	DIMENSIONS			LEAD SIZE (AWG)
		T	W	L			T	W	L			T	W	L	
.0010	230C1Z102*					230C1B102*	-	-	-	-	230C1C102*	-	-	-	-
.0012	230C1Z122*					230C1B122*	-	-	-	-	230C1C122*	-	-	-	-
.0015	230C1Z152*					230C1B152*	-	-	-	-	230C1C152*	-	-	-	-
.0018	230C1Z182*					230C1B182*	-	-	-	-	230C1C182*	-	-	-	-
.0022	230C1Z222*					230C1B222*	-	-	-	-	230C1C222*	-	-	-	-
.0027	230C1Z272*					230C1B272*	-	-	-	-	230C1C272*	-	-	-	-
.0033	230C1Z332*					230C1B332*	-	-	-	-	230C1C332*	-	-	-	-
.0039	230C1Z392*					230C1B392*	-	-	-	-	230C1C392*	-	-	-	-
.0047	230C1Z472*					230C1B472*	-	-	-	-	230C1C472*	-	-	-	-
.0056	230C1Z562*					230C1B562*	-	-	-	-	230C1C562*	-	-	-	-
.0068	230C1Z682*					230C1B682*	-	-	-	-	230C1C682*	-	-	-	-
.0082	230C1Z822*					230C1B822*	-	-	-	-	230C1C822*	-	-	-	-
.010	230C1Z103*					230C1B103*	-	-	-	-	230C1C103*	-	-	-	-
.012	230C1Z123*					230C1B123*	-	-	-	-	230C1C123*	-	-	-	-
.015	230C1Z153*					230C1B153*	-	-	-	-	230C1C153*	-	-	-	-
.018	230C1Z183*					230C1B183*	-	-	-	-	230C1C183*	-	-	-	-
.022	230C1Z223*					230C1B223*	-	-	-	-	230C1C223*	-	-	-	-
.027	230C1Z273*					230C1B273*	-	-	-	-	230C1C273*	-	-	-	-
.033	230C1Z333*					230C1B333*	-	-	-	-	230C1C333*	-	-	-	-
.039	230C1Z393*					230C1B393*	-	-	-	-	230C1C393*	-	-	-	-
.047	230C1Z473*					230C1B473*	-	-	-	-	230C1C473*	-	-	-	-
.056	230C1Z563*					230C1B563*	-	-	-	-	230C1C563*	-	-	-	-
.068	230C1Z683*					230C1B683*	-	-	-	-	230C1C683*	.12	.20	.53	26
.082	230C1Z823*					230C1B823*	-	-	-	-	230C1C823*	.09	.26	.53	26
.10	230C1Z104*					230C1B104*	.12	.32	.40	26	230C1C104*	.09	.36	.53	26
.12	230C1Z124*					230C1B124*	.13	.33	.40	26	230C1C124*	.09	.38	.53	26
.15	230C1Z154*					230C1B154*	.09	.25	.53	26	230C1C154*	.11	.39	.53	26
.18	230C1Z184*					230C1B184*	.10	.26	.53	26	230C1C184*	.11	.40	.65	26
.22	230C1Z224*					230C1B224*	.10	.27	.53	26	230C1C224*	.13	.42	.65	26
.27	230C1Z274*					230C1B274*	.12	.28	.53	26	230C1C274*	.12	.42	.78	26
.33	230C1Z334*					230C1B334*	.12	.33	.53	26	230C1C334*	.15	.45	.78	24
.39	230C1Z394*					230C1B394*	.13	.36	.53	26	230C1C394*	.18	.47	.78	24
.47	230C1Z474*					230C1B474*	.13	.42	.53	24	230C1C474*	.18	.57	.78	24
.56	230C1Z564*					230C1B564*	.13	.42	.65	24	230C1C564*	.15	.54	.78	24
.68	230C1Z684*					230C1B684*	.14	.43	.65	24	230C1C684*	.17	.56	.78	24
.82	230C1Z824*					230C1B824*	.15	.44	.65	24	230C1C824*	.20	.59	.78	22
1.0	230C1Z105*					230C1B105*	.13	.43	.78	24	230C1C105*	.23	.62	.78	22
1.2	230C1Z125*					230C1B125*	.15	.45	.78	24	230C1C125*	.26	.66	.78	22
1.5	230C1Z155*					230C1B155*	.17	.46	.78	22	230C1C155*	.28	.58	.90	22
1.8	230C1Z185*					230C1B185*	.18	.47	.78	22	230C1C185*	.38	.68	.90	22
2.0	230C1Z205*					230C1B205*	.15	.45	.90	22	230C1C205*	.28	.58	1.15	22
2.5	230C1Z255*					230C1B255*	.18	.47	.90	22	230C1C255*	.34	.73	1.15	22
3.0	230C1Z305*					230C1B305*	.15	.46	1.15	22	230C1C305*	.34	.74	1.15	22
3.5	230C1Z355*					230C1B355*	.20	.50	1.15	22	230C1C355*	.35	.84	1.15	22
4.0	230C1Z405*					230C1B405*	.19	.49	1.15	22	230C1C405*	.40	.90	1.15	22
4.5	230C1Z455*					230C1B455*	.20	.49	1.40	22	230C1C455*	.45	.95	1.15	20
5.0	230C1Z505*					230C1B505*	.16	.55	1.40	22	230C1C505*	.40	.90	1.40	20
6.0	230C1Z605*					230C1B605*	.18	.57	1.40	22	230C1C605*	.46	.76	1.65	20
8.0	230C1Z805*					230C1B805*	.23	.61	1.40	22	230C1C805*	.47	1.08	1.65	20
10.0	230C1Z106*					230C1B106*	.27	.66	1.40	22	230C1C106*	.52	1.20	1.65	20
12.0	230C1Z126*					230C1B126*	.24	.73	1.90	22	230C1C126*	-	-	-	-
15.0	230C1Z156*					230C1B156*	.26	.75	1.90	20	230C1C156*	-	-	-	-
18.0	230C1Z186*					230C1B186*	.28	.76	1.90	20	230C1C186*	-	-	-	-
20.0	230C1Z206*					230C1B206*	.30	.80	1.90	20	230C1C206*	-	-	-	-
30.0	230C1Z306*					230C1B306*	.35	1.14	1.90	20	230C1C306*	-	-	-	-
40.0	230C1Z406*					230C1B406*	.40	1.20	1.90	20	230C1C406*	-	-	-	-
50.0	230C1Z506*					230C1B506*	.50	1.25	1.90	20	230C1C506*	-	-	-	-

PLEASE CONSULT FACTORY

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



**WRAP AND FILL
FLAT CONFIGURATION**

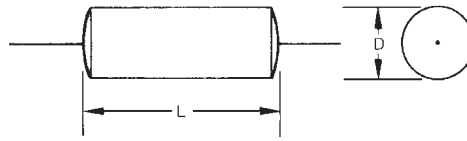
For max. T, W and L dimensions, allow $\pm .050''$.

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

400 VOLT DC						600 VOLT DC						1000 VOLT DC					
MFD	PART NO.	DIMENSIONS			LEAD SIZE (AWG)	PART NO.	DIMENSIONS			LEAD SIZE (AWG)	PART NO.	DIMENSIONS			LEAD SIZE (AWG)		
		T	W	L			T	W	L			T	W	L			
.0010	230C1E102*	.09	.18	.56	26	230C1F102*	.09	.18	.56	26	230C1G102*						
.0012	230C1E122*	.09	.18	.56	26	230C1F122*	.09	.18	.56	26	230C1G122*						
.0015	230C1E152*	.09	.18	.56	26	230C1F152*	.09	.18	.56	26	230C1G152*						
.0018	230C1E182*	.09	.18	.56	26	230C1F182*	.09	.18	.56	26	230C1G182*						
.0022	230C1E222*	.09	.18	.56	26	230C1F222*	.09	.18	.56	26	230C1G222*						
.0027	230C1E272*	.09	.18	.56	26	230C1F272*	.09	.18	.56	26	230C1G272*						
.0033	230C1E332*	.09	.18	.56	26	230C1F332*	.09	.18	.56	26	230C1G332*						
.0039	230C1E392*	.09	.18	.56	26	230C1F392*	.09	.18	.56	26	230C1G392*						
.0047	230C1E472*	.09	.18	.56	26	230C1F472*	.09	.18	.56	26	230C1G472*						
.0056	230C1E562*	.09	.18	.56	26	230C1F562*	.09	.18	.56	26	230C1G562*						
.0068	230C1E682*	.09	.25	.56	26	230C1F682*	.09	.25	.56	26	230C1G682*						
.0082	230C1E822*	.09	.27	.56	26	230C1F822*	.09	.27	.56	26	230C1G822*						
.010	230C1E103*	.09	.27	.56	26	230C1F103*	.09	.27	.56	26	230C1G103*						
.012	230C1E123*	.09	.28	.56	26	230C1F123*	.09	.28	.56	26	230C1G123*						
.015	230C1E153*	.09	.35	.56	26	230C1F153*	.09	.35	.56	26	230C1G153*						
.018	230C1E183*	.09	.21	.56	26	230C1F183*	.10	.38	.56	26	230C1G183*						
.022	230C1E223*	.09	.26	.56	26	230C1F223*	.11	.31	.69	26	230C1G223*						
.027	230C1E273*	.09	.27	.56	26	230C1F273*	.12	.32	.69	26	230C1G273*						
.033	230C1E333*	.09	.28	.56	26	230C1F333*	.12	.40	.69	26	230C1G333*						
.039	230C1E393*	.10	.29	.56	26	230C1F393*	.13	.42	.69	26	230C1G393*						
.047	230C1E473*	.11	.31	.56	26	230C1F473*	.16	.45	.69	24	230C1G473*						
.056	230C1E563*	.12	.42	.56	26	230C1F563*	.15	.47	.81	24	230C1G563*						
.068	230C1E683*	.10	.30	.65	26	230C1F683*	.17	.46	.81	24	230C1G683*						
.082	230C1E823*	.13	.32	.65	26	230C1F823*	.19	.49	.81	24	230C1G823*						
.10	230C1E104*	.14	.43	.65	26	230C1F104*	.19	.58	.81	24	230C1G104*						
.12	230C1E124*	.16	.45	.65	24	230C1F124*	.22	.61	.81	22	230C1G124*						
.15	230C1E154*	.19	.48	.65	24	230C1F154*	.18	.67	.95	22	230C1G154*						
.18	230C1E184*	.15	.44	.78	24	230C1F184*	.20	.69	.95	22	230C1G184*						
.22	230C1E224*	.17	.47	.78	24	230C1F224*	.24	.73	.95	22	230C1G224*						
.27	230C1E274*	.18	.56	.78	24	230C1F274*	.23	.74	1.21	22	230C1G274*						
.33	230C1E334*	.16	.55	.90	24	230C1F334*	.28	.77	1.21	22	230C1G334*						
.39	230C1E394*	.17	.57	.90	24	230C1F394*	.25	.74	1.45	22	230C1G394*						
.47	230C1E474*	.23	.61	.90	22	230C1F474*	.26	.84	1.45	22	230C1G474*						
.56	230C1E564*	.24	.63	.90	22	230C1F564*	.26	.75	1.96	22	230C1G564*						
.68	230C1E684*	.27	.67	.90	22	230C1F684*	.27	.85	1.96	22	230C1G684*						
.82	230C1E824*	.24	.72	1.15	22	230C1F824*	.31	.90	1.96	20	230C1G824*						
1.0	230C1E105*	.27	.76	1.15	22	230C1F105*	.36	.95	1.96	20	230C1G105*						
1.2	230C1E125*	.31	.90	1.15	22	230C1F125*	.43	1.04	1.96	20	230C1G125*						
1.5	230C1E155*	.30	.79	1.40	22	230C1F155*	-	-	-	-	230C1G155*						
1.8	230C1E185*	.33	.82	1.40	22	230C1F185*	-	-	-	-	230C1G185*						
2.0	230C1E205*	.33	.81	1.65	20	230C1F205*	-	-	-	-	230C1G205*						
2.5	230C1E255*	.36	1.10	1.65	20	230C1F255*	-	-	-	-	230C1G255*						
3.0	230C1E305*	-	-	-	-	230C1F305*	-	-	-	-	230C1G305*						
3.5	230C1E355*	-	-	-	-	230C1F355*	-	-	-	-	230C1G355*						
4.0	230C1E405*	-	-	-	-	230C1F405*	-	-	-	-	230C1G405*						
4.5	230C1Z455*	-	-	-	-	230C1F455*	-	-	-	-	230C1G455*						
5.0	230C1E505*	-	-	-	-	230C1F505*	-	-	-	-	230C1G505*						
6.0	230C1E605*	-	-	-	-	230C1F605*	-	-	-	-	230C1G605*						
8.0	230C1E805*	-	-	-	-	230C1F805*	-	-	-	-	230C1G805*						
10.0	230C1E106*	-	-	-	-	230C1F106*	-	-	-	-	230C1G106*						
12.0	230C1E126*	-	-	-	-	230C1F126*	-	-	-	-	230C1G126*						
15.0	230C1E156*	-	-	-	-	230C1F156*	-	-	-	-	230C1G156*						
18.0	230C1E186*	-	-	-	-	230C1F186*	-	-	-	-	230C1G186*						
20.0	230C1E206*	-	-	-	-	230C1F206*	-	-	-	-	230C1G206*						
30.0	230C1E306*	-	-	-	-	230C1F306*	-	-	-	-	230C1G306*						
40.0	230C1E406*	-	-	-	-	230C1F406*	-	-	-	-	230C1G406*						
50.0	230C1E506*	-	-	-	-	230C1F506*	-	-	-	-	230C1G506*						

PLEASE CONSULT FACTORY

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



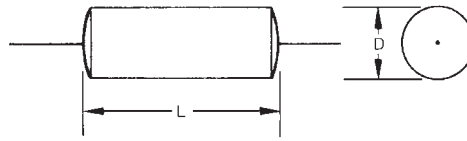
**WRAP AND FILL
ROUND CONFIGURATION**

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

LEAD LENGTH: 2.0" ± .50"

		35 VOLT DC			100 VOLT DC				200 VOLT DC			
MFD	PART NO.	DIMENSIONS		LEAD SIZE (AWG)	PART NO.	DIMENSIONS		LEAD SIZE (AWG)	PART NO.	DIMENSIONS		LEAD SIZE (AWG)
		D	L			D	L			D	L	
.0010	230D1Z102*	PLEASE CONSULT FACTORY	↑		230D1B102*	.15	.40	24	230D1C102*	.15	.40	24
.0012	230D1Z122*				230D1B122*	.15	.40	24	230D1C122*	.15	.40	24
.0015	230D1Z152*				230D1B152*	.15	.40	24	230D1C152*	.15	.40	24
.0018	230D1Z182*				230D1B182*	.15	.40	24	230D1C182*	.15	.40	24
.0022	230D1Z222*				230D1B222*	.15	.40	24	230D1C222*	.15	.40	24
.0027	230D1Z272*				230D1B272*	.15	.40	24	230D1C272*	.15	.40	24
.0033	230D1Z332*				230D1B332*	.15	.40	24	230D1C332*	.15	.40	24
.0039	230D1Z392*				230D1B392*	.15	.40	24	230D1C392*	.15	.40	24
.0047	230D1Z472*				230D1B472*	.15	.40	24	230D1C472*	.15	.40	24
.0056	230D1Z562*				230D1B562*	.15	.40	24	230D1C562*	.15	.40	24
.0068	230D1Z682*				230D1B682*	.15	.40	24	230D1C682*	.15	.40	24
.0082	230D1Z822*				230D1B822*	.15	.40	24	230D1C822*	.15	.40	24
.010	230D1Z103*				230D1B103*	.15	.40	24	230D1C103*	.15	.40	24
.012	230D1Z123*				230D1B123*	.15	.40	24	230D1C123*	.15	.40	24
.015	230D1Z153*				230D1B153*	.15	.40	24	230D1C153*	.15	.40	24
.018	230D1Z183*				230D1B183*	.15	.40	24	230D1C183*	.16	.40	24
.022	230D1Z223*				230D1B223*	.15	.40	24	230D1C223*	.15	.53	24
.027	230D1Z273*				230D1B273*	.15	.40	24	230D1C273*	.15	.53	24
.033	230D1Z333*				230D1B333*	.15	.40	24	230D1C333*	.15	.53	24
.039	230D1Z393*				230D1B393*	.15	.40	24	230D1C393*	.15	.53	24
.047	230D1Z473*				230D1B473*	.15	.40	24	230D1C473*	.15	.53	24
.056	230D1Z563*				230D1B563*	.15	.40	24	230D1C563*	.17	.53	24
.068	230D1Z683*				230D1B683*	.16	.40	24	230D1C683*	.18	.53	24
.082	230D1Z823*				230D1B823*	.17	.40	24	230D1C823*	.20	.53	24
.10	230D1Z104*				230D1B104*	.15	.53	24	230D1C104*	.22	.53	24
.12	230D1Z124*				230D1B124*	.15	.53	24	230D1C124*	.23	.53	24
.15	230D1Z154*				230D1B154*	.15	.53	24	230D1C154*	.26	.53	24
.18	230D1Z184*				230D1B184*	.15	.53	24	230D1C184*	.28	.53	24
.22	230D1Z224*				230D1B224*	.16	.53	24	230D1C224*	.24	.65	24
.27	230D1Z274*				230D1B274*	.18	.53	24	230D1C274*	.26	.65	24
.33	230D1Z334*	230D1B334*	.20	.53	24	230D1C334*	.30	.65	24			
.39	230D1Z394*	230D1B394*	.21	.53	24	230D1C394*	.27	.78	24			
.47	230D1Z474*	230D1B474*	.23	.53	24	230D1C474*	.30	.78	24			
.56	230D1Z564*	230D1B564*	.25	.53	24	230D1C564*	.32	.78	24			
.68	230D1Z684*	230D1B684*	.28	.53	24	230D1C684*	.35	.78	22			
.82	230D1Z824*	230D1B824*	.24	.65	24	230D1C824*	.39	.78	22			
1.0	230D1Z105*	230D1B105*	.26	.65	24	230D1C105*	.38	.90	22			
1.2	230D1Z125*	230D1B125*	.28	.65	24	230D1C125*	.36	1.15	22			
1.5	230D1Z155*	230D1B155*	.27	.78	24	230D1C155*	.39	1.15	22			
1.8	230D1Z185*	230D1B185*	.29	.78	24	230D1C185*	.43	1.15	22			
2.0	230D1Z205*	230D1B205*	.34	.78	24	230D1C205*	.45	1.15	22			
3.0	230D1Z305*	230D1B305*	.41	.78	22	230D1C305*	.55	1.15	20			
4.0	230D1Z405*	230D1B405*	.38	.90	22	230D1C405*	.55	1.40	20			
5.0	230D1Z505*	230D1B505*	.36	1.15	22	230D1C505*	.55	1.65	20			
6.0	230D1Z605*	230D1B605*	.39	1.15	22	230D1C605*	.59	1.65	20			
8.0	230D1Z805*	230D1B805*	.45	1.15	22	230D1C805*	.64	1.90	20			
10.0	230D1Z106*	230D1B106*	.57	1.15	20	230D1C106*	.81	1.90	20			
12.0	230D1Z126*	230D1B126*	.62	1.15	20	230D1C126*	.89	1.90	20			
15.0	230D1Z156*	230D1B156*	.61	1.40	20	230D1C156*	.98	1.90	20			
18.0	230D1Z186*	230D1B186*	.66	1.40	20	230D1C186*	1.06	1.90	20			
20.0	230D1Z206*	230D1B206*	.63	1.65	20	230D1C206*	1.12	1.90	20			
30.0	230D1Z306*	230D1B306*	.70	1.90	20	230D1C306*	-	-	-			
40.0	230D1Z406*	230D1B406*	.83	1.90	20	230D1C406*	-	-	-			
50.0	230D1Z506*	230D1B506*	.90	1.90	20	230D1C506*	-	-	-			

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



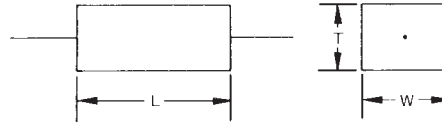
**WRAP AND FILL
ROUND CONFIGURATION**

For D and L dimensions, allow $\pm .050"$.

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

		400 VOLT DC			600 VOLT DC			1000 VOLT DC				
MFD	PART NO.	DIMENSIONS		LEAD SIZE (AWG)	PART NO.	DIMENSIONS		LEAD SIZE (AWG)	PART NO.	DIMENSIONS		LEAD SIZE (AWG)
		D	L			D	L			D	L	
.0010	230D1E102*	.15	.40	24	230D1F102*	.15	.40	24	230D1G102*	.15	.40	24
.0012	230D1E122*	.15	.40	24	230D1F122*	.15	.40	24	230D1G122*	.15	.40	24
.0015	230D1E152*	.15	.40	24	230D1F152*	.15	.40	24	230D1G152*	.15	.40	24
.0018	230D1E182*	.15	.40	24	230D1F182*	.15	.40	24	230D1G182*	.15	.40	24
.0022	230D1E222*	.15	.40	24	230D1F222*	.15	.40	24	230D1G222*	.15	.40	24
.0027	230D1E272*	.15	.40	24	230D1F272*	.16	.40	24	230D1G272*	.15	.40	24
.0033	230D1E332*	.15	.40	24	230D1F332*	.15	.56	24	230D1G332*	.15	.40	24
.0039	230D1E392*	.15	.40	24	230D1F392*	.15	.56	24	230D1G392*	.15	.40	24
.0047	230D1E472*	.15	.40	24	230D1F472*	.15	.56	24	230D1G472*	.15	.40	24
.0056	230D1E562*	.16	.40	24	230D1F562*	.15	.56	24	230D1G562*	.15	.40	24
.0068	230D1E682*	.17	.40	24	230D1F682*	.17	.56	24	230D1G682*	.15	.40	24
.0082	230D1E822*	.15	.53	24	230D1F822*	.18	.56	24	230D1G822*	.15	.40	24
.010	230D1E103*	.15	.53	24	230D1F103*	.20	.56	24	230D1G103*	.26	.95	24
.012	230D1E123*	.15	.53	24	230D1F123*	.21	.56	24	230D1G123*	.27	.95	24
.015	230D1E153*	.15	.53	24	230D1F153*	.24	.56	24	230D1G153*	.31	.95	24
.018	230D1E183*	.17	.53	24	230D1F183*	.26	.56	24	230D1G183*	.34	.95	22
.022	230D1E223*	.18	.53	24	230D1F223*	.28	.56	24	230D1G223*	.33	1.21	22
.027	230D1E273*	.20	.53	24	230D1F273*	.26	.68	24	230D1G273*	.36	1.21	22
.033	230D1E333*	.22	.53	24	230D1F333*	.28	.68	24	230D1G333*	.41	1.21	22
.039	230D1E393*	.23	.53	24	230D1F393*	.26	.78	24	230D1G393*	.42	1.21	22
.047	230D1E473*	.25	.53	24	230D1F473*	.28	.78	24	230D1G473*	.43	1.21	22
.056	230D1E563*	.28	.53	24	230D1F563*	.31	.78	24	230D1G563*	.47	1.21	22
.068	230D1E683*	.24	.65	24	230D1F683*	.34	.78	24	230D1G683*	.51	1.21	22
.082	230D1E823*	.26	.65	24	230D1F823*	.37	.78	22	230D1G823*	.56	1.21	22
.10	230D1E104*	.28	.65	24	230D1F104*	.37	.95	22	230D1G104*	.62	1.21	22
.12	230D1E124*	.26	.78	24	230D1F124*	.35	1.17	22	230D1G124*	.67	1.21	22
.15	230D1E154*	.29	.78	24	230D1F154*	.38	1.17	22	230D1G154*	.68	1.46	20
.18	230D1E184*	.32	.78	24	230D1F184*	.42	1.17	22	230D1G184*	.74	1.46	20
.22	230D1E224*	.35	.78	22	230D1F224*	.46	1.17	22	230D1G224*	.84	1.46	20
.27	230D1E274*	.39	.78	22	230D1F274*	.51	1.17	20	230D1G274*	.90	1.46	20
.33	230D1E334*	.38	.90	22	230D1F334*	.55	1.17	20	230D1G334*	.91	1.72	20
.39	230D1E394*	.36	1.15	22	230D1F394*	.53	1.45	20	230D1G394*	.92	1.96	20
.47	230D1E474*	.39	1.15	22	230D1F474*	.59	1.45	20	230D1G474*	.91	2.25	20
.56	230D1E564*	.42	1.15	22	230D1F564*	.57	1.70	20	230D1G564*	-	-	-
.68	230D1E684*	.46	1.15	22	230D1F684*	.58	1.90	20	230D1G684*	-	-	-
.82	230D1E824*	.50	1.15	20	230D1F824*	.64	1.90	20	230D1G824*	-	-	-
1.0	230D1E105*	.55	1.15	20	230D1F105*	.70	1.90	20	230D1G105*	-	-	-
1.2	230D1E125*	.53	1.40	20	230D1F125*	.76	1.90	20	230D1G125*	-	-	-
1.5	230D1E155*	.59	1.40	20	230D1F155*	.85	1.90	20	230D1G155*	-	-	-
1.8	230D1E185*	.58	1.65	20	230D1F185*	.93	1.90	20	230D1G185*	-	-	-
2.0	230D1E205*	.56	1.90	20	230D1F205*	.99	1.90	20	230D1G205*	-	-	-
3.0	230D1E305*	.68	1.90	20	230D1F305*	1.06	2.21	20	230D1G305*	-	-	-
4.0	230D1E405*	.78	1.90	20	230D1F405*	1.20	2.21	20	230D1G405*	-	-	-
5.0	230D1E505*	.87	1.90	20	230D1F505*	1.35	2.21	18	230D1G505*	-	-	-
6.0	230D1E605*	.91	1.90	20	230D1F605*	-	-	-	230D1G605*	-	-	-
8.0	230D1E805*	1.05	1.90	20	230D1F805*	-	-	-	230D1G805*	-	-	-
10.0	230D1E106*	1.12	2.21	20	230D1F106*	-	-	-	230D1G106*	-	-	-
12.0	230D1E126*	-	-	-	230D1F126*	-	-	-	230D1G126*	-	-	-
15.0	230D1E156*	-	-	-	230D1F156*	-	-	-	230D1G156*	-	-	-
18.0	230D1E186*	-	-	-	230D1F186*	-	-	-	230D1G186*	-	-	-
20.0	230D1E206*	-	-	-	230D1F206*	-	-	-	230D1G206*	-	-	-
30.0	230D1E306*	-	-	-	230D1F306*	-	-	-	230D1G306*	-	-	-
40.0	230D1E406*	-	-	-	230D1F406*	-	-	-	230D1G406*	-	-	-
50.0	230D1E506*	-	-	-	230D1F506*	-	-	-	230D1G506*	-	-	-

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



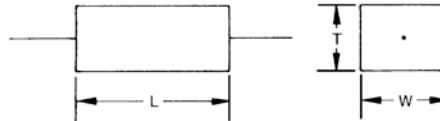
**EPOXY CASE
RECTANGULAR
CONFIGURATION**

For max. T and W dimensions, allow + .010".
For max. L dimension, allow + .030".

LEAD LENGTH: 2.0" ± .50"

35 VOLT DC						100 VOLT DC					200 VOLT DC				
MFD	PART NO.	DIMENSIONS			LEAD SIZE (AWG)	PART NO.	DIMENSIONS			LEAD SIZE (AWG)	PART NO.	DIMENSIONS			LEAD SIZE (AWG)
		T	W	L			T	W	L			T	W	L	
.0010	231A1Z102*	.17	.29	.42	26	231A1B102*	.17	.29	.42	26	231A1C102*	.17	.29	.42	26
.0015	231A1Z152*	.17	.29	.42	26	231A1B152*	.17	.29	.42	26	231A1C152*	.17	.29	.42	26
.0018	231A1Z182*	.17	.29	.42	26	231A1B182*	.17	.29	.42	26	231A1C182*	.17	.29	.42	26
.0022	231A1Z222*	.17	.29	.42	26	231A1B222*	.17	.29	.42	26	231A1C222*	.17	.29	.42	26
.0027	231A1Z272*	.17	.29	.42	26	231A1B272*	.17	.29	.42	26	231A1C272*	.17	.29	.42	26
.0033	231A1Z332*	.17	.29	.42	26	231A1B332*	.17	.29	.42	26	231A1C332*	.17	.29	.42	26
.0039	231A1Z392*	.17	.29	.42	26	231A1B392*	.17	.29	.42	26	231A1C392*	.17	.29	.42	26
.0047	231A1Z472*	.17	.29	.42	26	231A1B472*	.17	.29	.42	26	231A1C472*	.17	.29	.42	26
.0056	231A1Z562*	.17	.29	.42	26	231A1B562*	.17	.29	.42	26	231A1C562*	.17	.29	.42	26
.0068	231A1Z682*	.17	.29	.42	26	231A1B682*	.17	.29	.42	26	231A1C682*	.17	.29	.42	26
.0082	231A1Z822*	.17	.29	.42	26	231A1B822*	.17	.29	.42	26	231A1C822*	.17	.29	.42	26
.010	231A1Z103*	.17	.29	.42	26	231A1B103*	.17	.29	.42	26	231A1C103*	.17	.29	.42	26
.012	231A1Z123*	.17	.29	.42	26	231A1B123*	.17	.29	.42	26	231A1C123*	.17	.29	.42	26
.015	231A1Z153*	.17	.29	.42	26	231A1B153*	.17	.29	.42	26	231A1C153*	.17	.29	.42	26
.018	231A1Z183*	.17	.29	.42	26	231A1B183*	.17	.29	.42	26	231A1C183*	.17	.29	.42	26
.022	231A1Z223*	.17	.29	.42	26	231A1B223*	.17	.29	.42	26	231A1C223*	.17	.29	.55	26
.027	231A1Z273*	.17	.29	.42	26	231A1B273*	.17	.29	.42	26	231A1C273*	.17	.29	.55	26
.033	231A1Z333*	.17	.29	.42	26	231A1B333*	.17	.29	.42	26	231A1C333*	.17	.29	.55	26
.039	231A1Z393*	.17	.29	.42	26	231A1B393*	.17	.29	.42	26	231A1C393*	.17	.29	.55	26
.047	231A1Z473*	.17	.29	.42	26	231A1B473*	.17	.29	.42	26	231A1C473*	.17	.29	.55	26
.056	231A1Z563*	.17	.29	.42	26	231A1B563*	.17	.29	.42	26	231A1C563*	.17	.29	.55	26
.068	231A1Z683*	.17	.29	.42	26	231A1B683*	.17	.29	.42	26	231A1C683*	.23	.36	.55	26
.082	231A1Z823*	.17	.29	.42	26	231A1B823*	.17	.29	.42	26	231A1C823*	.23	.36	.55	26
.10	231A1Z104*	.17	.29	.42	26	231A1B104*	.17	.29	.55	26	231A1C104*	.23	.36	.55	26
.12	231A1Z124*	.17	.29	.42	26	231A1B124*	.17	.29	.55	26	231A1C124*	.23	.36	.55	26
.15	231A1Z154*	.17	.29	.42	26	231A1B154*	.17	.29	.55	26	231A1C154*	.29	.42	.55	24
.18	231A1Z184*	.17	.29	.42	26	231A1B184*	.17	.29	.55	26	231A1C184*	.29	.42	.55	24
.22	231A1Z224*	.17	.29	.42	26	231A1B224*	.17	.29	.55	26	231A1C224*	.29	.42	.67	24
.27	231A1Z274*	.23	.36	.42	26	231A1B274*	.23	.36	.55	26	231A1C274*	.29	.42	.67	24
.33	231A1Z334*	.23	.36	.42	26	231A1B334*	.23	.36	.55	26	231A1C334*	.29	.42	.67	24
.39	231A1Z394*	.23	.36	.42	26	231A1B394*	.23	.36	.55	26	231A1C394*	.29	.42	.82	24
.47	231A1Z474*	.23	.36	.42	26	231A1B474*	.23	.36	.55	26	231A1C474*	.39	.54	.82	22
.56	231A1Z564*	.17	.29	.55	26	231A1B564*	.29	.42	.55	24	231A1C564*	.39	.54	.82	22
.68	231A1Z684*	.23	.36	.55	24	231A1B684*	.29	.42	.55	24	231A1C684*	.39	.54	.82	22
.82	231A1Z824*	.23	.36	.55	24	231A1B824*	.29	.42	.67	24	231A1C824*	.39	.54	.82	22
1.0	231A1Z105*	.23	.36	.55	24	231A1B105*	.29	.42	.67	24	231A1C105*	.39	.54	1.04	22
1.2	231A1Z125*	.29	.42	.55	24	231A1B125*	.29	.42	.67	24	231A1C125*	.39	.54	1.24	22
1.5	231A1Z155*	.29	.42	.55	24	231A1B155*	.29	.42	.82	24	231A1C155*	.39	.54	1.24	22
1.8	231A1Z185*	.29	.42	.55	24	231A1B185*	.29	.42	.82	24	231A1C185*	.39	.54	1.24	22
2.0	231A1Z205*	.29	.42	.67	24	231A1B205*	.39	.54	.82	22	231A1C205*	.56	.72	1.24	20
3.0	231A1Z305*	.29	.42	.67	24	231A1B305*	.39	.54	.82	22	231A1C305*	.56	.72	1.24	20
4.0	231A1Z405*	.39	.54	.82	24	231A1B405*	.39	.54	1.04	22	231A1C405*	.56	.72	1.50	20
5.0	231A1Z505*	.39	.54	.82	24	231A1B505*	.39	.54	1.24	22	231A1C505*	.56	.72	1.75	20
6.0	231A1Z605*	.39	.54	.82	24	231A1B605*	.39	.54	1.24	22	231A1C605*	.76	.96	2.10	20
8.0	231A1Z805*	.50	.68	1.04	22	231A1B805*	.56	.72	1.24	20	231A1C805*	.76	.96	2.10	20
10.0	231A1Z106*	.50	.68	1.04	22	231A1B106*	.56	.72	1.24	20	231A1C106*	-	-	-	-
15.0	231A1Z156*	.50	.68	1.24	22	231A1B156*	.56	.72	1.50	20	231A1C156*	-	-	-	-
18.0	231A1Z186*	.50	.68	1.24	22	231A1B186*	-	-	-	-	231A1C186*	-	-	-	-
20.0	231A1Z206*	.50	.68	1.24	22	231A1B206*	-	-	-	-	231A1C206*	-	-	-	-
30.0	231A1Z306*	.58	.79	1.24	20	231A1B306*	-	-	-	-	231A1C306*	-	-	-	-
40.0	231A1Z406*	.76	.96	1.24	20	231A1B406*	-	-	-	-	231A1C406*	-	-	-	-
50.0	231A1Z506*	.76	.96	1.40	20	231A1B506*	-	-	-	-	231A1C506*	-	-	-	-
75.0	231A1Z756*	.76	.96	1.65	20	231A1B756*	-	-	-	-	231A1C756*	-	-	-	-
100.0	231A1Z1006*	.76	.96	2.10	18	231A1B1006*	-	-	-	-	231A1C1006*	-	-	-	-

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



**EPOXY CASE
RECTANGULAR
CONFIGURATION**

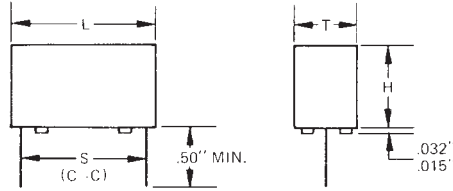
For max. T and W dimensions, allow + .010".
For max. L dimension, allow + .030".

LEAD LENGTH: 2.0" ± .50"

400 VOLT DC						600 VOLT DC						1000 VOLT DC					
MFD	PART NO.	DIMENSIONS			LEAD SIZE (AWG)	PART NO.	DIMENSIONS			LEAD SIZE (AWG)	PART NO.	DIMENSIONS			LEAD SIZE (AWG)		
		T	W	L			T	W	L			T	W	L			
.0010	231A1E102*	.17	.29	.42	26	231A1F102*	.17	.29	.42	26	231A1G102*						
.0015	231A1E152*	.17	.29	.42	26	231A1F152*	.17	.29	.42	26	231A1G152*						
.0018	231A1E182*	.17	.29	.42	26	231A1F182*	.17	.29	.42	26	231A1G182*						
.0022	231A1E222*	.17	.29	.42	26	231A1F222*	.17	.29	.42	26	231A1G222*						
.0027	231A1E272*	.17	.29	.42	26	231A1F272*	.17	.29	.42	26	231A1G272*						
.0033	231A1E332*	.17	.29	.42	26	231A1F332*	.17	.29	.55	26	231A1G332*						
.0039	231A1E392*	.17	.29	.42	26	231A1F392*	.17	.29	.55	26	231A1G392*						
.0047	231A1E472*	.17	.29	.42	26	231A1F472*	.17	.29	.55	26	231A1G472*						
.0056	231A1E562*	.17	.29	.42	26	231A1F562*	.17	.29	.55	26	231A1G562*						
.0068	231A1E682*	.17	.29	.42	26	231A1F682*	.17	.29	.55	26	231A1G682*						
.0082	231A1E822*	.17	.29	.55	26	231A1F822*	.23	.36	.55	26	231A1G822*						
.010	231A1E103*	.17	.29	.55	26	231A1F103*	.23	.36	.55	26	231A1G103*						
.012	231A1E123*	.17	.29	.55	26	231A1F123*	.23	.36	.55	26	231A1G123*						
.015	231A1E153*	.17	.29	.55	26	231A1F153*	.29	.42	.55	24	231A1G153*						
.018	231A1E183*	.17	.29	.55	26	231A1F183*	.29	.42	.55	24	231A1G183*						
.022	231A1E223*	.23	.36	.55	26	231A1F223*	.29	.42	.55	24	231A1G223*						
.027	231A1E273*	.23	.36	.55	26	231A1F273*	.29	.42	.67	24	231A1G273*						
.033	231A1E333*	.23	.36	.55	26	231A1F333*	.29	.42	.67	24	231A1G333*						
.039	231A1E393*	.29	.42	.55	24	231A1F393*	.29	.42	.82	24	231A1G393*						
.047	231A1E473*	.29	.42	.55	24	231A1F473*	.29	.42	.82	24	231A1G473*						
.056	231A1E563*	.29	.42	.55	24	231A1F563*	.39	.54	.82	22	231A1G563*						
.068	231A1E683*	.29	.42	.67	24	231A1F683*	.39	.54	.82	22	231A1G683*						
.082	231A1E823*	.29	.42	.67	24	231A1F823*	.39	.54	.82	22	231A1G823*						
.10	231A1E104*	.29	.42	.67	24	231A1F104*	.39	.54	1.04	22	231A1G104*						
.12	231A1E124*	.29	.42	.82	24	231A1F124*	.39	.54	1.24	22	231A1G124*						
.15	231A1E154*	.29	.42	.82	24	231A1F154*	.39	.54	1.24	22	231A1G154*						
.18	231A1E184*	.39	.54	.82	22	231A1F184*	.39	.54	1.24	22	231A1G184*						
.22	231A1E224*	.39	.54	.82	22	231A1F224*	.56	.72	1.24	20	231A1G224*						
.27	231A1E274*	.39	.54	.82	22	231A1F274*	.56	.72	1.24	20	231A1G274*						
.33	231A1E334*	.39	.54	1.04	22	231A1F334*	.56	.72	1.24	20	231A1G334*						
.39	231A1E394*	.39	.54	1.24	22	231A1F394*	.56	.72	1.50	20	231A1G394*						
.47	231A1E474*	.39	.54	1.24	22	231A1F474*	.56	.72	1.50	20	231A1G474*						
.56	231A1E564*	.39	.54	1.24	22	231A1F564*	.56	.72	1.75	20	231A1G564*						
.68	231A1E684*	.56	.72	1.24	20	231A1F684*	.56	.72	1.95	20	231A1G684*						
.82	231A1E824*	.56	.72	1.24	20	231A1F824*	-	-	-	-	231A1G824*						
1.0	231A1E105*	.56	.72	1.24	20	231A1F105*	-	-	-	-	231A1G105*						
1.2	231A1E125*	.56	.72	1.50	20	231A1F125*	-	-	-	-	231A1G125*						
1.5	231A1E155*	.56	.72	1.50	20	231A1F155*	-	-	-	-	231A1G155*						
1.8	231A1E185*	.56	.72	1.75	20	231A1F185*	-	-	-	-	231A1G185*						
2.0	231A1E205*	.56	.72	1.95	20	231A1F205*	-	-	-	-	231A1G205*						
3.0	231A1E305*	-	-	-	-	231A1F305*	-	-	-	-	231A1G305*						
4.0	231A1E405*	-	-	-	-	231A1F405*	-	-	-	-	231A1G405*						
5.0	231A1E505*	-	-	-	-	231A1F505*	-	-	-	-	231A1G505*						
6.0	231A1E605*	-	-	-	-	231A1F605*	-	-	-	-	231A1G605*						
8.0	231A1E805*	-	-	-	-	231A1F805*	-	-	-	-	231A1G805*						
10.0	231A1E106*	-	-	-	-	231A1F106*	-	-	-	-	231A1G106*						
15.0	231A1E156*	-	-	-	-	231A1F156*	-	-	-	-	231A1G156*						
18.0	231A1E186*	-	-	-	-	231A1F186*	-	-	-	-	231A1G186*						
20.0	231A1E206*	-	-	-	-	231A1F206*	-	-	-	-	231A1G206*						
30.0	231A1E306*	-	-	-	-	231A1F306*	-	-	-	-	231A1G306*						
40.0	231A1E406*	-	-	-	-	231A1F406*	-	-	-	-	231A1G406*						
50.0	231A1E506*	-	-	-	-	231A1F506*	-	-	-	-	231A1G506*						
75.0	231A1E756*	-	-	-	-	231A1F756*	-	-	-	-	231A1G756*						
100.0	231A1E1006*	-	-	-	-	231A1F1006*	-	-	-	-	231A1G1006*						

PLEASE CONSULT FACTORY

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

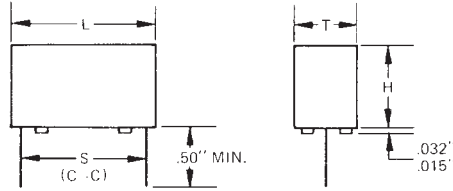


**EPOXY CASE
RECTANGULAR
CONFIGURATION**

For max. T, H and L dimensions, allow $+0.010''$.
For max. S dimensions, allow $+0.015''$.

		35 VOLT DC					100 VOLT DC					200 VOLT DC						
MFD	PART NO.	DIMENSIONS				LEAD SIZE (AWG)	PART NO.	DIMENSIONS				LEAD SIZE (AWG)	PART NO.	DIMENSIONS				LEAD SIZE (AWG)
		T	H	L	S			T	H	L	S			T	H	L	S	
.0010	232A1Z102*	.18	.30	.42	.300	22	232A1B102*	.18	.30	.42	.300	22	232A1C102*	.18	.30	.42	.300	22
.0015	232A1Z152*	.18	.30	.42	.300	22	232A1B152*	.18	.30	.42	.300	22	232A1C152*	.18	.30	.42	.300	22
.0018	232A1Z182*	.18	.30	.42	.300	22	232A1B182*	.18	.30	.42	.300	22	232A1C182*	.18	.30	.42	.300	22
.0022	232A1Z222*	.18	.30	.42	.300	22	232A1B222*	.18	.30	.42	.300	22	232A1C222*	.18	.30	.42	.300	22
.0027	232A1Z272*	.18	.30	.42	.300	22	232A1B272*	.18	.30	.42	.300	22	232A1C272*	.18	.30	.42	.300	22
.0033	232A1Z332*	.18	.30	.42	.300	22	232A1B332*	.18	.30	.42	.300	22	232A1C332*	.18	.30	.42	.300	22
.0039	232A1Z392*	.18	.30	.42	.300	22	232A1B392*	.18	.30	.42	.300	22	232A1C392*	.18	.30	.42	.300	22
.0047	232A1Z472*	.18	.30	.42	.300	22	232A1B472*	.18	.30	.42	.300	22	232A1C472*	.18	.30	.42	.300	22
.0056	232A1Z562*	.18	.30	.42	.300	22	232A1B562*	.18	.30	.42	.300	22	232A1C562*	.18	.30	.42	.300	22
.0068	232A1Z682*	.18	.30	.42	.300	22	232A1B682*	.18	.30	.42	.300	22	232A1C682*	.18	.30	.42	.300	22
.0082	232A1Z822*	.18	.30	.42	.300	22	232A1B822*	.18	.30	.42	.300	22	232A1C822*	.18	.30	.42	.300	22
.010	232A1Z103*	.18	.30	.42	.300	22	232A1B103*	.18	.30	.42	.300	22	232A1C103*	.18	.30	.42	.300	22
.012	232A1Z123*	.18	.30	.42	.300	22	232A1B123*	.18	.30	.42	.300	22	232A1C123*	.18	.30	.42	.300	22
.015	232A1Z153*	.18	.30	.42	.300	22	232A1B153*	.18	.30	.42	.300	22	232A1C153*	.18	.30	.42	.300	22
.018	232A1Z183*	.18	.30	.42	.300	22	232A1B183*	.18	.30	.42	.300	22	232A1C183*	.18	.30	.42	.300	22
.022	232A1Z223*	.18	.30	.42	.300	22	232A1B223*	.18	.30	.42	.300	22	232A1C223*	.18	.30	.55	.400	22
.027	232A1Z273*	.18	.30	.42	.300	22	232A1B273*	.18	.30	.42	.300	22	232A1C273*	.18	.30	.55	.400	22
.033	232A1Z333*	.18	.30	.42	.300	22	232A1B333*	.18	.30	.42	.300	22	232A1C333*	.18	.30	.55	.400	22
.039	232A1Z393*	.18	.30	.42	.300	22	232A1B393*	.18	.30	.42	.300	22	232A1C393*	.18	.30	.55	.400	22
.047	232A1Z473*	.18	.30	.42	.300	22	232A1B473*	.18	.30	.42	.300	22	232A1C473*	.18	.30	.55	.400	22
.056	232A1Z563*	.18	.30	.42	.300	22	232A1B563*	.18	.30	.42	.300	22	232A1C563*	.18	.30	.55	.400	22
.068	232A1Z683*	.18	.30	.42	.300	22	232A1B683*	.18	.30	.42	.300	22	232A1C683*	.18	.30	.55	.400	22
.082	232A1Z823*	.18	.30	.42	.300	22	232A1B823*	.18	.30	.42	.300	22	232A1C823*	.24	.37	.55	.400	22
.10	232A1Z104*	.18	.30	.42	.300	22	232A1B104*	.18	.30	.55	.400	22	232A1C104*	.24	.37	.55	.400	22
.12	232A1Z124*	.18	.30	.42	.300	22	232A1B124*	.18	.30	.55	.400	22	232A1C124*	.24	.37	.55	.400	22
.15	232A1Z154*	.18	.30	.42	.300	22	232A1B154*	.18	.30	.55	.400	22	232A1C154*	.30	.43	.55	.400	22
.18	232A1Z184*	.18	.30	.42	.300	22	232A1B184*	.18	.30	.55	.400	22	232A1C184*	.30	.43	.55	.400	22
.22	232A1Z224*	.18	.30	.42	.300	22	232A1B224*	.18	.30	.55	.400	22	232A1C224*	.30	.43	.67	.500	22
.27	232A1Z274*	.18	.30	.42	.300	22	232A1B274*	.18	.30	.55	.400	22	232A1C274*	.30	.43	.67	.500	22
.33	232A1Z334*	.18	.30	.42	.300	22	232A1B334*	.24	.37	.55	.400	22	232A1C334*	.30	.43	.67	.500	22
.39	232A1Z394*	.18	.30	.55	.400	22	232A1B394*	.24	.37	.55	.400	22	232A1C394*	.30	.43	.82	.600	22
.47	232A1Z474*	.18	.30	.55	.400	22	232A1B474*	.24	.37	.55	.400	22	232A1C474*	.30	.43	.82	.600	22
.56	232A1Z564*	.18	.30	.55	.400	22	232A1B564*	.30	.43	.55	.400	22	232A1C564*	.40	.55	.82	.600	20
.68	232A1Z684*	.24	.30	.55	.400	22	232A1B684*	.30	.43	.55	.400	22	232A1C684*	.40	.55	.82	.600	20
.82	232A1Z824*	.24	.37	.55	.400	22	232A1B824*	.30	.43	.67	.500	22	232A1C824*	.40	.55	.82	.600	20
1.0	232A1Z105*	.24	.37	.55	.400	22	232A1B105*	.30	.43	.67	.500	22	232A1C105*	.40	.55	1.04	.800	20
1.2	232A1Z125*	.24	.37	.55	.400	22	232A1B125*	.30	.43	.67	.500	22	232A1C125*	.40	.55	1.24	1.100	20
1.5	232A1Z155*	.30	.43	.55	.400	22	232A1B155*	.30	.43	.82	.600	22	232A1C155*	.40	.55	1.24	1.100	20
1.8	232A1Z185*	.30	.43	.55	.400	22	232A1B185*	.30	.43	.82	.600	22	232A1C185*	.40	.55	1.24	1.100	20
2.0	232A1Z205*	.30	.43	.55	.400	22	232A1B205*	.40	.55	.82	.600	20	232A1C205*	.57	.73	1.24	1.100	20
3.0	232A1Z305*	.30	.43	.67	.500	22	232A1B305*	.40	.55	.82	.600	20	232A1C305*	.57	.73	1.24	1.100	20
4.0	232A1Z405*	.30	.43	.82	.600	22	232A1B405*	.40	.55	1.04	.800	20	232A1C405*	.57	.73	1.75	1.600	20
5.0	232A1Z505*	.40	.55	.82	.600	22	232A1B505*	.40	.55	1.24	1.100	20	232A1C505*	.57	.73	1.75	1.600	20
6.0	232A1Z605*	.40	.55	.82	.600	20	232A1B605*	.40	.55	1.24	1.100	20	232A1C605*	.75	.90	1.75	1.600	20
8.0	232A1Z805*	.40	.55	1.04	.800	20	232A1B805*	.57	.73	1.24	1.100	20	232A1C805*	.75	.90	1.95	1.800	20
10.0	232A1Z106*	.40	.59	1.04	.800	20	232A1B106*	.57	.73	1.24	1.100	20	232A1C106*	.75	.90	1.95	1.800	20
15.0	232A1Z156*	.57	.73	1.24	1.100	20	232A1B156*	.57	.73	1.75	1.600	20	232A1C156*	-	-	-	-	-
18.0	232A1Z186*	.57	.73	1.24	1.100	20	232A1B186*	.57	.73	1.75	1.600	20	232A1C186*	-	-	-	-	-
20.0	232A1Z206*	.57	.78	1.24	1.100	20	232A1B206*	.57	.73	1.75	1.600	20	232A1C206*	-	-	-	-	-

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



**EPOXY CASE
RECTANGULAR
CONFIGURATION**

For max. T, H and L dimensions, allow $+0.010''$.
For max. S dimensions, allow $+0.015''$.

		400 VOLT DC					600 VOLT DC					1000 VOLT DC						
MFD	PART NO.	DIMENSIONS				LEAD SIZE (AWG)	PART NO.	DIMENSIONS				LEAD SIZE (AWG)	PART NO.	DIMENSIONS				LEAD SIZE (AWG)
		T	H	L	S			T	H	L	S			T	H	L	S	
.0010	232A1E102*	.18	.30	.42	.300	22	232A1F102*	.18	.30	.42	.300	22	232A1G102*					
.0015	232A1E152*	.18	.30	.42	.300	22	232A1F152*	.18	.30	.42	.300	22	232A1G152*					
.0018	232A1E182*	.18	.30	.42	.300	22	232A1F182*	.18	.30	.42	.300	22	232A1G182*					
.0022	232A1E222*	.18	.30	.42	.300	22	232A1F222*	.18	.30	.42	.300	22	232A1G222*					
.0027	232A1E272*	.18	.30	.42	.300	22	232A1F272*	.18	.30	.42	.300	22	232A1G272*					
.0033	232A1E332*	.18	.30	.42	.300	22	232A1F332*	.18	.30	.55	.400	22	232A1G332*					
.0039	232A1E392*	.18	.30	.42	.300	22	232A1F392*	.18	.30	.55	.400	22	232A1G392*					
.0047	232A1E472*	.18	.30	.42	.300	22	232A1F472*	.18	.30	.55	.400	22	232A1G472*					
.0056	232A1E562*	.18	.30	.42	.300	22	232A1F562*	.18	.30	.55	.400	22	232A1G562*					
.0068	232A1E682*	.18	.30	.42	.300	22	232A1F682*	.18	.30	.55	.400	22	232A1G682*					
.0082	232A1E822*	.18	.30	.55	.400	22	232A1F822*	.18	.30	.55	.400	22	232A1G822*					
.010	232A1E103*	.18	.30	.55	.400	22	232A1F103*	.24	.37	.55	.400	22	232A1G103*					
.012	232A1E123*	.18	.30	.55	.400	22	232A1F123*	.24	.37	.55	.400	22	232A1G123*					
.015	232A1E153*	.18	.30	.55	.400	22	232A1F153*	.24	.37	.55	.400	22	232A1G153*					
.018	232A1E183*	.18	.30	.55	.400	22	232A1F183*	.30	.43	.55	.400	22	232A1G183*					
.022	232A1E223*	.18	.30	.55	.400	22	232A1F223*	.30	.43	.55	.400	22	232A1G223*					
.027	232A1E273*	.24	.37	.55	.400	22	232A1F273*	.30	.43	.67	.500	22	232A1G273*					
.033	232A1E333*	.24	.37	.55	.400	22	232A1F333*	.30	.43	.67	.500	22	232A1G333*					
.039	232A1E393*	.24	.37	.55	.400	22	232A1F393*	.30	.43	.82	.600	22	232A1G393*					
.047	232A1E473*	.30	.43	.55	.400	22	232A1F473*	.30	.43	.82	.600	22	232A1G473*					
.056	232A1E563*	.30	.43	.55	.400	22	232A1F563*	.40	.55	.82	.600	20	232A1G563*					
.068	232A1E683*	.30	.43	.67	.500	22	232A1F683*	.40	.55	.82	.600	20	232A1G683*					
.082	232A1E823*	.30	.43	.67	.500	22	232A1F823*	.40	.55	.82	.600	20	232A1G823*					
.10	232A1E104*	.30	.43	.67	.500	22	232A1F104*	.40	.55	1.04	.800	20	232A1G104*					
.12	232A1E124*	.30	.43	.82	.600	22	232A1F124*	.40	.55	1.24	1.100	20	232A1G124*					
.15	232A1E154*	.30	.43	.82	.600	22	232A1F154*	.40	.55	1.24	1.100	20	232A1G154*					
.18	232A1E184*	.40	.55	.82	.600	20	232A1F184*	.40	.55	1.24	1.100	20	232A1G184*					
.22	232A1E224*	.40	.55	.82	.600	20	232A1F224*	.57	.73	1.24	1.100	20	232A1G224*					
.27	232A1E274*	.40	.55	.82	.600	20	232A1F274*	.57	.73	1.24	1.100	20	232A1G274*					
.33	232A1E334*	.40	.55	1.04	.800	20	232A1F334*	.57	.73	1.24	1.100	20	232A1G334*					
.39	232A1E394*	.40	.55	1.24	1.100	20	232A1F394*	.57	.73	1.75	1.600	20	232A1G394*					
.47	232A1E474*	.40	.55	1.24	1.100	20	232A1F474*	.57	.73	1.75	1.600	20	232A1G474*					
.56	232A1E564*	.40	.55	1.24	1.100	20	232A1F564*	.57	.73	1.75	1.600	20	232A1G564*					
.68	232A1E684*	.57	.73	1.24	1.100	20	232A1F684*	-	-	-	-	-	232A1G684*					
.82	232A1E824*	.57	.73	1.24	1.100	20	232A1F824*	-	-	-	-	-	232A1G824*					
1.0	232A1E105*	.57	.73	1.24	1.100	20	232A1F105*	-	-	-	-	-	232A1G105*					
1.2	232A1E125*	.57	.73	1.75	1.600	20	232A1F125*	-	-	-	-	-	232A1G125*					
1.5	232A1E155*	.57	.73	1.75	1.600	20	232A1F155*	-	-	-	-	-	232A1G155*					
1.8	232A1E185*	.57	.73	1.75	1.600	20	232A1F185*	-	-	-	-	-	232A1G185*					
2.0	232A1E205*	-	-	-	-	-	232A1F205*	-	-	-	-	-	232A1G205*					
3.0	232A1E305*	-	-	-	-	-	232A1F305*	-	-	-	-	-	232A1G305*					
4.0	232A1E405*	-	-	-	-	-	232A1F405*	-	-	-	-	-	232A1G405*					
5.0	232A1E505*	-	-	-	-	-	232A1F505*	-	-	-	-	-	232A1G505*					
6.0	232A1E605*	-	-	-	-	-	232A1F605*	-	-	-	-	-	232A1G605*					
8.0	232A1E805*	-	-	-	-	-	232A1F805*	-	-	-	-	-	232A1G805*					
10.0	232A1E106*	-	-	-	-	-	232A1F106*	-	-	-	-	-	232A1G106*					
15.0	232A1E156*	-	-	-	-	-	232A1F156*	-	-	-	-	-	232A1G156*					
18.0	232A1E186*	-	-	-	-	-	232A1F186*	-	-	-	-	-	232A1G186*					
20.0	232A1E206*	-	-	-	-	-	232A1F206*	-	-	-	-	-	232A1G206*					

PLEASE CONSULT FACTORY

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