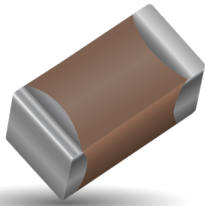


# High Voltage MLC Chips

## FLEXITERM® - 600V to 5000V Applications



High value, low leakage and small size are difficult parameters to obtain in capacitors for high voltage systems. AVX special high voltage MLC chips capacitors meet these performance characteristics and are designed for applications such as snubbers in high frequency power converters, resonators in SMPS, and high voltage coupling/DC blocking. These high voltage chip designs exhibit low ESRs at high frequencies.

To make high voltage chips, larger physical sizes than are normally encountered are necessary. These larger sizes require that special precautions be taken in applying these chips in surface mount assemblies. In response to this, and to follow from the success of the FLEXITERM® range of low voltage parts, AVX is delighted to offer a FLEXITERM® high voltage range of capacitors, FLEXITERM®.

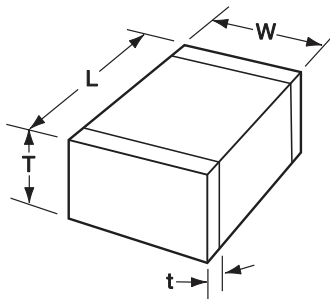
The FLEXITERM® layer is designed to enhance the mechanical flexure and temperature cycling performance of a standard ceramic capacitor, giving customers a solution where board flexure or temperature cycle damage are concerns.

### HOW TO ORDER

1808	A	C	272	K	A	Z	2	A
<b>AVX Style</b>	<b>Voltage</b>	<b>Temperature Coefficient</b>	<b>Capacitance Code</b> (2 significant digits + no. of zeros)	<b>Capacitance Tolerance</b>	<b>Test Level</b>	<b>Termination*</b>	<b>Packaging</b>	<b>Special Code</b>
0805	600V/630V = C	COG = A	Examples:	COG: J = ±5%		Z = FLEXITERM®	2 = 7" Reel	A = Standard
1206	1000V = A	X7R = C	10 pF = 100	K = ±10%		100% Tin	4 = 13" Reel	
1210	1500V = S		100 pF = 101	M = ±20%		(RoHS Compliant)		
1808	2000V = G		1,000 pF = 102	X7R: K = ±10%				
1812	2500V = W		22,000 pF = 223	M = ±20%				
1825	3000V = H		220,000 pF = 224	Z = +80%,				
2220	4000V = J		1 µF = 105	-20%				
2225	5000V = K							
***								

Notes: Capacitors with X7R dielectrics are not intended for applications across AC supply mains or AC line filtering with polarity reversal. Contact plant for recommendations. Contact factory for availability of Termination and Tolerance options for Specific Part Numbers.

\*\*\* AVX offers nonstandard chip sizes. Contact factory for details.



### DIMENSIONS millimeters (inches)

SIZE	0805	1206	1210*	1808*	1812*	1825*	2220*	2225*
(L) Length	2.10 ± 0.20 (0.083 ± 0.008)	3.30 ± 0.30 (0.130 ± 0.012)	3.30 ± 0.40 (0.130 ± 0.016)	4.60 ± 0.50 (0.181 ± 0.020)	4.60 ± 0.50 (0.181 ± 0.020)	4.60 ± 0.50 (0.181 ± 0.020)	5.70 ± 0.50 (0.224 ± 0.020)	5.70 ± 0.50 (0.224 ± 0.020)
(W) Width	1.25 ± 0.20 (0.049 ± 0.008)	1.60 <sup>+0.30</sup> <sub>-0.10</sub> (0.063 <sup>+0.012</sup> <sub>-0.004</sub> )	2.50 ± 0.30 (0.098 ± 0.012)	2.00 ± 0.20 (0.079 ± 0.008)	3.20 ± 0.30 (0.126 ± 0.012)	6.30 ± 0.40 (0.248 ± 0.016)	5.00 ± 0.40 (0.197 ± 0.016)	6.30 ± 0.40 (0.248 ± 0.016)
(T) Thickness Max.	1.35 (0.053)	1.80 (0.071)	2.80 (0.110)	2.20 (0.087)	2.80 (0.110)	3.40 (0.134)	3.40 (0.134)	3.40 (0.134)
(t) terminal	min. 0.50 ± 0.20 max. (0.020 ± 0.008)	0.60 ± 0.20 (0.024 ± 0.008)	0.75 ± 0.35 (0.030 ± 0.014)	0.75 ± 0.35 (0.030 ± 0.014)	0.75 ± 0.35 (0.030 ± 0.014)	0.75 ± 0.35 (0.030 ± 0.014)	0.85 ± 0.35 (0.033 ± 0.014)	0.85 ± 0.35 (0.033 ± 0.014)

\*Reflow Soldering Only



Performance of SMPS capacitors can be simulated by downloading SpiCalci software program - <http://www.avx.com/SpiApps/default.asp#spicalci>  
Custom values, ratings and configurations are also available.



# High Voltage MLC Chips

## FLEXITERM® - 600V to 5000V Applications



### NP0 (C0G) CAPACITANCE RANGE

PREFERRED SIZES ARE SHADED

Case Size	1825								2220								2225										
Soldering	Reflow Only								Reflow Only								Reflow Only										
(L) Length	4.60 ± 0.50 (0.181 ± 0.020)								5.70 ± 0.50 (0.224 ± 0.020)								5.72 ± 0.25 (0.225 ± 0.010)										
(W) Width	6.30 ± 0.40 (0.248 ± 0.016)								5.00 ± 0.40 (0.197 ± 0.016)								6.35 ± 0.25 (0.250 ± 0.010)										
(T) Thickness	3.40 (0.134)								3.40 (0.134)								3.40 (0.134)										
(t) Terminal	0.75 ± 0.35 (0.030 ± 0.014)								0.85 ± 0.35 (0.033 ± 0.014)								0.85 ± 0.35										
Voltage (V)	600	630	1000	1500	2000	2500	3000	4000	600	630	1000	1500	2000	2500	3000	4000	5000	600	630	1000	1500	2000	2500	3000	4000	5000	
Cap (pF)																											
1.5 1R5																											
1.8 1R8																											
2.2 2R2																											
2.7 2R7																											
3.3 3R3																											
3.9 3R9																											
4.7 4R7																											
5.6 5R6																											
6.8 6R8																											
8.2 8R2																											
10 100	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	F	
12 120	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	F
15 150	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	F
18 180	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	F
22 220	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	F
27 270	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	F
33 330	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	F
39 390	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	F
47 470	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	G
56 560	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	G
68 680	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	G
82 820	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	G
100 101	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	G	G
120 121	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	G	G
150 151	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	G	G
180 181	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E	F	F	E	E	E	E	E	E	E	E	G	G
220 221	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E	F	F	E	E	E	E	E	E	E	E	G	G
270 271	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			E	E	E	E	E	E	E	E	G	G
330 331	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			E	E	E	E	E	E	E	E	G	
390 391	E	E	E	E	E	E	E		E	E	E	E	E	E	E			E	E	E	E	E	E	E	E	G	
470 471	E	E	E	E	E	E	E		E	E	E	E	E	E	E			E	E	E	E	E	E	E	E	G	
560 561	E	E	E	E	E	E	E		E	E	E	E	E	E	E			E	E	E	E	E	E	E	E	G	
680 681	E	E	E	E	E	F	F		E	E	E	E	F	F			E	E	E	E	E	E	E	E	E		
750 751	E	E	E	E	E	F	F		E	E	E	E	F	F			E	E	E	E	E	E	E	E	E		
820 821	E	E	E	E	E	F	F		E	E	E	E	F	F			E	E	E	E	E	F	E	E	E		
1000 102	E	E	E	E	E	F	F		E	E	E	E	F	F			E	E	E	E	E	E	E	E	E		
1200 122	E	E	E	E	E	G	G		E	E	E	E	G	G			E	E	E	E	E	F	F	E	E		
1500 152	E	E	E	F	F	G	G		E	E	E	F	F	G	G			E	E	E	E	E	F	F	E		
1800 182	E	E	E	F	F	G	G		E	E	E	F	F	G	G			E	E	E	E	E	G	G	E		
2200 222	E	E	E	G	G				E	E	E	G	G					E	E	E	E	E					
2700 272	E	E	E	G	G				E	E	E	G	G					E	E	E	F	F					
3300 332	E	E	E	G	G				E	E	E	G	G					E	E	E	F	F					
3900 392	E	E	E	G	G				E	E	E	G	G					E	E	E	G	G					
4700 472	E	E	E	G	G				E	E	E	G	G					F	F	F	G	G					
5600 562	F	F	F	G	G				F	F	F							F	F	F	G	G					
6800 682	F	F	F						F	F	F							F	F	F	G	G					
8200 822	G	G	G						G	G	G							G	G	G							
Cap (µF)																											
0.010 103																											
0.012 123																											
0.015 153																											
0.018 183																											
0.022 223																											
0.033 333																											
0.047 473																											
0.056 563																											
0.068 683																											
0.100 104																											
Voltage (V)	600	630	1000	1500	2000	2500	3000	4000	600	630	1000	1500	2000	2500	3000	4000	5000	600	630	1000	1500	2000	2500	3000	4000	5000	
Case Size	1825								2220								2225										

Letter	A	C	E	F	G	X
Max.	0.813	1.448	1.803	2.210	2.794	0.940
Thickness	(0.032)	(0.057)	(0.071)	(0.087)	(0.110)	(0.037)

NOTE: Contact factory for non-specified capacitance



The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at [www.avx.com/disclaimer/](http://www.avx.com/disclaimer/) by reference and should be reviewed in full before placing any order.

# High Voltage MLC Chips

## FLEXITERM® - 600V to 5000V Applications



### X7R Dielectric

#### Performance Characteristics

<b>Capacitance Range</b>	10 pF to 0.82 µF (25°C, 1.0 ±0.2 Vrms at 1kHz)
<b>Capacitance Tolerances</b>	±10%; ±20%; +80%, -20%
<b>Dissipation Factor</b>	2.5% max. (+25°C, 1.0 ±0.2 Vrms, 1kHz)
<b>Operating Temperature Range</b>	-55°C to +125°C
<b>Temperature Characteristic</b>	±15% (0 VDC)
<b>Voltage Ratings</b>	600, 630, 1000, 1500, 2000, 2500, 3000, 4000 & 5000 VDC (+125°C)
<b>Insulation Resistance (+25°C, at 500 VDC)</b>	100K MΩ min. or 1000 MΩ - µF min., whichever is less
<b>Insulation Resistance (+125°C, at 500 VDC)</b>	10K MΩ min. or 100 MΩ - µF min., whichever is less
<b>Dielectric Strength</b>	Minimum 120% rated voltage for 5 seconds at 50 mA max. current

### X7R CAPACITANCE RANGE

#### PREFERRED SIZES ARE SHADED

Case Size Soldering	0805					1206					1210					1808								1812							
	Reflow/Wave					Reflow/Wave					Reflow Only					Reflow Only								Reflow Only							
(L) Length	2.10 ±0.20 (0.083 ±0.008)					3.30 ±0.30 (0.130 ±0.012)					3.30 ±0.40 (0.130 ±0.016)					4.60 ±0.50 (0.181 ±0.020)								4.60 ±0.50 (0.181 ±0.020)							
W) Width	1.25 ±0.20 (0.049 ±0.008)					1.60 +0.30/-0.10 (0.063 +0.012/-0.004)					2.50 ±0.30 (0.098 ±0.012)					2.00 ±0.20 (0.079 ±0.008)								3.20 ±0.30 (0.126 ±0.012)							
(T) Thickness	1.35 (0.053)					1.80 (0.071)					2.80 (0.110)					2.20 (0.087)								2.80 (0.110)							
(t) Terminal max	0.50 ±0.20 (0.020 ±0.008)					0.60 ±0.20 (0.024 ±0.008)					0.75 ±0.35 (0.030 ±0.014)					0.75 ±0.35 (0.030 ±0.014)								0.75 ±0.35 (0.030 ±0.014)							
Voltage (V)	600	630	1000			600	630	1000	1500	2000	600	630	1000	1500	2000	600	630	1000	1500	2000	2500	3000	4000	600	630	1000	1500	2000	2500	3000	4000
Cap (pF) 100 101	X	X	C	C	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F								
120 121	X	X	C	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F								
150 151	X	X	C	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F								
180 181	X	X	C	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F								
220 221	X	X	C	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F								
270 271	X	X	C	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F				E	E	E	E	E
330 331	X	X	C	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			E	E	E	E	E	E
390 391	X	X	C	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			E	E	E	E	E	E
470 471	X	X	C	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			E	E	E	E	E	E
560 561	X	X	C	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			E	E	E	E	E	E
680 681	X	X	C	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			E	E	E	E	E	E
750 751	X	X	C	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			E	E	E	E	E	E
820 821	X	X	C	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			E	E	E	E	E	E
1000 102	X	X	C	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			E	E	E	E	E	E
1200 122	X	X	C	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			F	F	F	F	F	F
1500 152	X	X	C	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			F	F	F	F	F	F
1800 182	X	X					C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			F	F	F	F	F	F
2200 222	X	X					C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			F	F	F	F	F	F
2700 272	X	X					C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			F	F	F	F	F	F
3300 332	X	X					C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			F	F	F	F	F	F
3900 392	X	X					C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			F	F	F	F	F	F
4700 472	X	X					C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			F	F	F	F	F	F
5600 562	X	X					C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			F	F	F	F	F	F
6800 682	X	X					C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			F	F	F	F	F	F
8200 822	X	X					C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			F	F	E	G	G	G
Cap (µF) 0.010 103	C	C					C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	F			F	F	F	G	G	G	
0.015 153	C	C					E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			F	F	F	G			
0.018 183	C	C					E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			F	F	G				
0.022 223	C	C					E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			F	F	G				
0.027 273							E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			F	F	G				
0.033 333							E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			F	F	G				
0.039 393							E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			F	F	G				
0.047 473							E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F			F	F	G				
0.056 563							F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F			F	F				
0.068 683							F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F			F	F				
0.082 823							F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F			F	F				
0.100 104							F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F			F	F				
0.150 154																										G	G				
0.220 224																										G	G				
0.270 274																										G	G				
0.330 334																															
0.390 394																															
0.470 474																															
0.560 564																															
0.680 684																															
0.820 824																															
1.000 105																															
Voltage (V)	600	630	1000			600	630	1000	1500	2000	600	630	1000	1500	2000	600	630	1000	1500	2000	2500	3000	4000	600	630	1000	1500	2000	2500	3000	4000
Case Size	0805					1206					1210					1808								1812							



# High Voltage MLC Chips

## FLEXITERM® - 600V to 5000V Applications



### X7R CAPACITANCE RANGE

#### PREFERRED SIZES ARE SHADED

Case Size	1825								2220								2225								3640										
Soldering	Reflow Only								Reflow Only								Reflow Only								Reflow Only										
(L) Length	4.60 0.50 (0.181 0.020)								5.70 0.50 (0.224 0.020)								5.72 ± 0.25 (0.225 ± 0.010)								9.14 ± 0.25 (0.360 ± 0.010)										
(W) Width	6.30 0.40 (0.248 ± 0.016)								5.00 0.40 (0.197 0.016)								6.35 ± 0.25 (0.250 ± 0.010)								5.72 ± 0.25 (0.225 ± 0.010)										
(T) Thickness	3.40 (0.134)								3.40 (0.134)								2.54 (0.100)								2.54 (0.100)										
(t) Terminal	0.75 0.35 (0.030 ± 0.014)								0.85 0.35 (0.033 ± 0.014)								0.85 ± 0.35 (0.033 ± 0.014)								0.76 (0.030) 1.52 (0.062)										
Voltage (V)	600	630	1000	1500	2000	2500	3000	4000	600	630	1000	1500	2000	2500	3000	4000	5000	600	630	1000	1500	2000	2500	3000	4000	5000	600	630	1000	1500	2000	2500	3000	4000	5000
Cap (pF) 100 101																																			
120 121																																			
150 151																																			
180 181																																			
220 221																																			
270 271																																			
330 331																																			
390 391																																			
470 471																																			
560 561																																			
680 681																																			
750 751																																			
820 821																																			
1000 102	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
1200 122	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
1500 152	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
1800 182	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
2200 222	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
2700 272	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
3300 332	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
3900 392	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
4700 472	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
5600 562	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
6800 682	F	F	F	G	G	G	G	G	F	F	F	F	F	F	G	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
8200 822	F	F	F	G	G	G	G	G	F	F	F	F	F	F	G	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
Cap (µF) 0010 103	F	F	F	G	G	G	G	G	F	F	F	F	F	F	G	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
0015 153	F	F	F	G	G	G	G	G	F	F	F	F	F	F	G	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
0018 183	F	F	F	G	G	G	G	G	F	F	F	F	F	F	G	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
0022 223	F	F	F	G	G	G	G	G	F	F	F	F	F	F	G	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
0027 273	F	F	F	G	G	G	G	G	F	F	F	F	F	F	G	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
0033 333	F	F	F	G	G	G	G	G	F	F	F	F	F	F	G	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
0039 393	F	F	F	G	G	G	G	G	F	F	F	F	F	F	G	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
0047 473	F	F	F	P	P	P	P	P	F	F	F	F	F	F	G	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
0056 563	F	F	F	G	G	G	G	G	F	F	F	F	F	F	G	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
0068 683	F	F	F	G	G	G	G	G	F	F	F	F	F	F	G	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
0082 823	F	F	F	G	G	G	G	G	F	F	F	F	F	F	G	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
0100 104	F	F	F	G	G	G	G	G	F	F	F	F	F	F	G	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
0150 154	F	F	F	G	G	G	G	G	F	F	F	F	F	F	G	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
0220 224	F	F	F	G	G	G	G	G	F	F	F	F	F	F	G	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
0270 274	F	F	F	G	G	G	G	G	F	F	F	F	F	F	G	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
0330 334	F	F	F	G	G	G	G	G	F	F	F	F	F	F	G	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
0390 394	F	F	F	G	G	G	G	G	F	F	F	F	F	F	G	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
0470 474	F	F	F	G	G	G	G	G	F	F	F	F	F	F	G	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
0560 564	G	G	G	G	G	G	G	G	F	F	F	F	F	F	G	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
0680 684	G	G	G	G	G	G	G	G	F	F	F	F	F	F	G	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
0820 824	G	G	G	G	G	G	G	G	F	F	F	F	F	F	G	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
1000 105	G	G	G	G	G	G	G	G	F	F	F	F	F	F	G	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
Voltage (V)	600	630	1000	1500	2000	2500	3000	4000	600	630	1000	1500	2000	2500	3000	4000	5000	600	630	1000	1500	2000	2500	3000	4000	5000	600	630	1000	1500	2000	2500	3000	4000	5000
Case Size	1825								2220								2225								3640										

Letter	A	C	E	F	G	P	X
Max. Thickness	0.813 (0.032)	1.448 (0.057)	1.8034 (0.071)	2.2098 (0.087)	2.794 (0.110)	3.048 (0.120)	0.940 (0.037)

NOTE: Contact factory for non-specified capacitance values



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