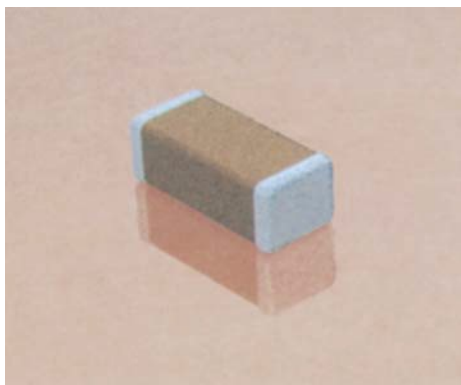


High Voltage MLC Chips FLEXITERM®

For 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®.

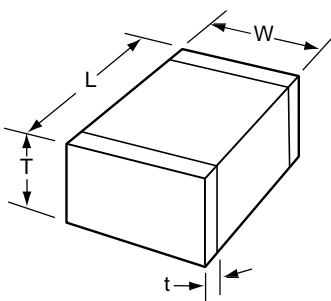
The FLEXITERM® layer is designed to enhance the mechanical flexure and temperature cycling performance of a standard ceramic capacitor, giving customers a solution where board flexure or temperature cycle damage are concerns.

HOW TO ORDER

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

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 ^{+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)	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	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 SpiCalc software program - <http://www.avx.com/SpiApps/default.asp?spicalci>
Custom values, ratings and configurations are also available.



High Voltage MLC Chips FLEXITERM®

For 600V to 5000V Applications

NPO (C0G) Dielectric Performance Characteristics

Capacitance Range	10 pF to 0.100 µF (+25°C, 1.0 ±0.2 Vrms, 1kHz)
Capacitance Tolerances	±5%, ±10%, ±20%
Dissipation Factor	0.1% max. (+25°C, 1.0 ±0.2 Vrms, 1kHz)
Operating Temperature Range	-55°C to +125°C
Temperature Characteristic	0 ±30 ppm/°C (0VDC)
Voltage Ratings	600, 630, 1000, 1500, 2000, 2500, 3000, 4000 & 5000 VDC (+125°C)
Insulation Resistance (+25°C, at 500 VDC)	100K MΩ min. or 1000 MΩ - µF min., whichever is less
Insulation Resistance (+125°C, at 500 VDC)	10K MΩ min. or 100 MΩ - µF min., whichever is less
Dielectric Strength	Minimum 120% rated voltage for 5 seconds at 50 mA max. current

NPO (C0G) 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 mm (in.)	2.10 ±0.20 (0.083 ±0.008)					3.30 ±0.30 (0.130 ±0.012)					3.30 ±0.30 (0.130 ±0.016)					4.60 ±0.50 (0.181 ±0.020)								4.60 ±0.50 (0.181 ±0.020)							
(W) Width mm (in.)	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 mm (in.)	1.35 (0.053)					1.80 (0.071)					2.80 (0.110)					2.20 (0.087)								2.80 (0.110)							
(t) Terminal min 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)	A	A	A	X	X	X	X	X																							
1.5 1R5	A	A	A	X	X	X	X	X																							
1.8 1R8	A	A	A	X	X	X	X	X																							
2.2 2R2	A	A	A	X	X	X	X	X																							
2.7 2R7	A	A	A	X	X	X	X	X																							
3.3 3R3	A	A	A	X	X	X	X	X																							
3.9 3R9	A	A	A	X	X	X	X	X																							
4.7 4R7	A	A	A	X	X	X	X	X																							
5.6 5R6	A	A	A	X	X	X	X	X																							
6.8 6R8	A	A	A	X	X	X	X	X																							
8.2 8R2	A	A	A	X	X	X	X	X																							
10 10	A	A	A	X	X	X	X	X																							
12 12	A	A	A	X	X	X	X	X																							
15 15	A	A	A	X	X	X	X	X																							
18 18	A	A	A	X	X	X	X	X																							
22 22	A	A	A	X	X	X	X	X																							
27 27	A	A	A	X	X	X	X	X																							
33 33	A	A	A	X	X	X	X	X																							
39 39	A	A	A	X	X	X	X	X																							
47 47	A	A	A	X	X	X	X	X																							
56 56	A	A	A	X	X	M	C	C																							
68 68	A	A	A	X	X	M	C	C																							
82 82	X	X	X	X	X	C	C	C																							
100 101	X	X	X	X	X	C	C	C																							
120 121	C	C	C	X	X	C	C	C																							
150 151	C	C	C	X	X	C	C	C																							
180 181	C	C	C	X	X	E	E	E																							
220 221	C	C	C	X	X	E	E	E																							
270 271	C	C	C	X	X	E	E	E																							
330 331	C	C	C	X	X	E	E	E																							
390 391	C	C	C	X	X	E	E	E																							
470 471	C	C	C	X	X	E	E	E																							
560 561	C	C	C	X	X	E	E	E																							
680 681	C	C	C	X	X	E	E	E																							
750 751	C	C	C	X	X	E	E	E																							
820 821	C	C	C	X	X	E	E	E																							
1000 101	C	C	C	X	X	E	E	E																							
1200 122	C	C	C	X	X	E	E	E																							
1500 152	C	C	C	X	X	E	E	E																							
1800 182	C	C	C	X	X	E	E	E																							
2200 222	C	C	C	X	X	E	E	E																							
2700 272	C	C	C	X	X	E	E	E																							
3300 332	C	C	C	X	X	E	E	E																							
3900 392	C	C	C	X	X	E	E	E																							
4700 472	C	C	C	X	X	E	E	E																							
5600 562	C	C	C	X	X	E	E	E																							
6800 682	C	C	C	X	X	E	E	E																							
8200 822	C	C	C	X	X	E	E	E																							
Cap (µF)																															
0.010 103																															
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	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®

For 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 mm	4.80 ± 0.50 (0.181 ± 0.020)								5.70 ± 0.50 (0.224 ± 0.020)								5.72 ± 0.25 (0.225 ± 0.010)									
(W) Width mm	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 mm	3.40 (0.134)								3.40 (0.134)								2.54 (0.100)									
(t) Terminal min	0.75 ± 0.35 (0.030 ± 0.014)								0.85 ± 0.35 (0.033 ± 0.014)								0.85 ± 0.35									
(t) Terminal max																										
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 1R3								1.5 1R3									1.5 1R3								
	1.8 1R8								1.8 1R8									1.8 1R8								
	2.2 2R2								2.2 2R2									2.2 2R2								
	2.7 2R7								2.7 2R7									2.7 2R7								
	3.3 3R3								3.3 3R3									3.3 3R3								
	3.9 3R9								3.9 3R9									3.9 3R9								
	4.7 4R7								4.7 4R7									4.7 4R7								
	5.6 5R6								5.6 5R6									5.6 5R6								
	6.8 6R8								6.8 6R8									6.8 6R8								
	8.2 8R2								8.2 8R2									8.2 8R2								
	10 100	E	E	E	E	E	E	E	10 100	E	E	E	E	E	E	E	10 100	E	E	E	E	E	E	E	E	
	12 120	E	E	E	E	E	E	E	12 120	E	E	E	E	E	E	E	12 120	E	E	E	E	E	E	E	E	
	15 150	E	E	E	E	E	E	E	15 150	E	E	E	E	E	E	E	15 150	E	E	E	E	E	E	E	E	
	18 180	E	E	E	E	E	E	E	18 180	E	E	E	E	E	E	E	18 180	E	E	E	E	E	E	E	E	
	22 220	E	E	E	E	E	E	E	22 220	E	E	E	E	E	E	E	22 220	E	E	E	E	E	E	E	E	
	27 270	E	E	E	E	E	E	E	27 270	E	E	E	E	E	E	E	27 270	E	E	E	E	E	E	E	E	
	33 330	E	E	E	E	E	E	E	33 330	E	E	E	E	E	E	E	33 330	E	E	E	E	E	E	E	E	
	39 390	E	E	E	E	E	E	E	39 390	E	E	E	E	E	E	E	39 390	E	E	E	E	E	E	E	E	
	47 470	E	E	E	E	E	E	E	47 470	E	E	E	E	E	E	E	47 470	E	E	E	E	E	E	E	E	
	56 560	E	E	E	E	E	E	E	56 560	E	E	E	E	E	E	E	56 560	E	E	E	E	E	E	E	E	
	68 680	E	E	E	E	E	E	E	68 680	E	E	E	E	E	E	E	68 680	E	E	E	E	E	E	E	E	
	82 820	E	E	E	E	E	E	E	82 820	E	E	E	E	E	E	E	82 820	E	E	E	E	E	E	E	E	
	100 101	E	E	E	E	E	E	F	100 101	E	E	E	E	E	E	E	100 101	E	E	E	E	E	E	E	G	
	120 121	E	E	E	E	E	E	F	120 121	E	E	E	E	E	E	E	120 121	E	E	E	E	E	E	E	G	
	150 151	E	E	E	E	E	E	F	150 151	E	E	E	E	E	E	E	150 151	E	E	E	E	E	E	E	G	
	180 181	E	E	E	E	E	E	F	180 181	E	E	E	E	E	E	E	180 181	E	E	E	E	E	E	E	G	
	220 221	E	E	E	E	E	E	F	220 221	E	E	E	E	E	E	E	220 221	E	E	E	E	E	E	E	G	
	270 271	E	E	E	E	E	E	F	270 271	E	E	E	E	E	E	E	270 271	E	E	E	E	E	E	E	G	
	330 331	E	E	E	E	E	E	F	330 331	E	E	E	E	E	E	E	330 331	E	E	E	E	E	E	E	G	
	390 391	E	E	E	E	E	E	F	390 391	E	E	E	E	E	E	E	390 391	E	E	E	E	E	E	E	G	
	470 471	E	E	E	E	E	E	F	470 471	E	E	E	E	E	E	E	470 471	E	E	E	E	E	E	E	G	
	560 561	E	E	E	E	E	E	F	560 561	E	E	E	E	E	E	E	560 561	E	E	E	E	E	E	E	G	
	680 681	E	E	E	E	E	E	F	680 681	E	E	E	E	E	E	E	680 681	E	E	E	E	E	E	E	G	
	750 751	E	E	E	E	E	E	F	750 751	E	E	E	E	E	E	E	750 751	E	E	E	E	E	E	E	G	
	820 821	E	E	E	E	E	E	F	820 821	E	E	E	E	E	E	E	820 821	E	E	E	E	E	E	E	G	
	1000 102	E	E	E	E	E	E	F	1000 102	E	E	E	E	E	E	E	1000 102	E	E	E	E	E	E	E	G	
	1200 122	E	E	E	E	E	E	F	1200 122	E	E	E	E	E	E	E	1200 122	E	E	E	E	E	E	E	G	
	1500 152	E	E	E	E	E	E	F	1500 152	E	E	E	E	E	E	E	1500 152	E	E	E	E	E	E	E	G	
	1800 182	E	E	E	E	E	E	F	1800 182	E	E	E	E	E	E	E	1800 182	E	E	E	E	E	E	E	G	
	2200 222	E	E	E	E	E	E	F	2200 222	E	E	E	E	E	E	E	2200 222	E	E	E	E	E	E	E	G	
	2700 272	E	E	E	E	E	E	F	2700 272	E	E	E	E	E	E	E	2700 272	E	E	E	E	E	E	E	G	
	3300 332	E	E	E	E	E	E	F	3300 332	E	E	E	E	E	E	E	3300 332	E	E	E	E	E	E	E	G	
	3900 392	E	E	E	E	E	E	F	3900 392	E	E	E	E	E	E	E	3900 392	E	E	E	E	E	E	E	G	
	4700 472	E	E	E	E	E	E	F	4700 472	E	E	E	E	E	E	E	4700 472	E	E	E	E	E	E	E	G	
	5600 562	F	F	F	F	F	F	G	5600 562	F	F	F	F	F	F	F	5600 562	F	F	F	F	F	F	F	G	
	6800 682	F	F	F	F	F	F	G	6800 682	F	F	F	F	F	F	F	6800 682	F	F	F	F	F	F	F	G	
	8200 822	F	F	F	F	F	F	G	8200 822	F	F	F	F	F	F	F	8200 822	F	F	F	F	F	F	F	G	
Cap (µF)	0.010 103								0.010 103								0.010 103									
	0.012 123								0.012 123								0.012 123									
	0.015 153								0.015 153								0.015 153									
	0.018 183								0.018 183								0.018 183									
	0.022 223								0.022 223								0.022 223									
	0.033 333								0.033 333								0.033 333									
	0.047 473								0.047 473								0.047 473									
	0.056 563								0.056 563								0.056 563									
	0.068 683								0.068 683								0.068 683									
	0.100 104								0.100 104								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 Max. Thickness	A	C	E	F	G	X
	0.813 (0.032)	1.448 (0.057)	1.8034 (0.071)	2.2098 (0.087)	2.794 (0.110)	0.940 (0.037)

NOTE: Contact factory for non-specified capacitance values



High Voltage MLC Chips FLEXITERM®

For 600V to 5000V Applications

X7R Dielectric

Performance Characteristics

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

X7R CAPACITANCE RANGE PREFERRED SIZES ARE SHADED

Case Size	0805			1206				1210					1808							1812										
	Soldering			Soldering				Soldering					Soldering							Soldering										
(L) Length	Reflow/Wave			Reflow/Wave				ReflowOnly					ReflowOnly							ReflowOnly										
(W) Width	Reflow/Wave			Reflow/Wave				ReflowOnly					ReflowOnly							ReflowOnly										
(T) Thickness	Reflow/Wave			Reflow/Wave				ReflowOnly					ReflowOnly							ReflowOnly										
(t) Terminal	Reflow/Wave			Reflow/Wave				ReflowOnly					ReflowOnly							ReflowOnly										
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	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
	120	121	X	X	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
	150	151	X	X	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
	180	181	X	X	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
	220	221	X	X	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
	270	271	X	X	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
	330	331	X	X	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
	390	391	X	X	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
	470	471	X	X	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
	560	561	X	X	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
	680	681	X	X	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
	750	751	X	X	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
	820	821	X	X	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
	1000	102	X	X	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
	1200	122	X	X	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
	1500	152	X	X	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
	1800	182	X	X	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
	2200	222	X	X	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
	2700	272	X	X	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
	3300	332	X	X	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
	3900	392	X	X	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
	4700	472	X	X	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
	5600	562	X	X	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
	6800	682	X	X	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
	8200	822	X	X	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
	Cap (μF)	0.010	103	C	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
		0.015	153	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
		0.018	183	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
		0.022	223	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
		0.027	273	C	C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
		0.033	333			E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
		0.039	393				E	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
		0.047	473				E	E	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E			
		0.056	563				F	F	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	F	F			
		0.082	823				F	F	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	F	F			
		0.150	154																											
		0.220	224																											
		0.270	274																											
		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®

For 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	4.80 ±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)										
min																																			
max																																			
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							100	101								100	101								100	101							
	120	121							120	121							120	121								120	121								
	150	151							150	151							150	151								150	151								
	180	181							180	181							180	181								180	181								
	220	221							220	221							220	221								220	221								
	270	271							270	271							270	271								270	271								
	330	331							330	331							330	331								330	331								
	390	391							390	391							390	391								390	391								
	470	471							470	471							470	471								470	471								
	560	561							560	561							560	561								560	561								
	680	681							680	681							680	681								680	681								
	750	751							750	751							750	751								750	751								
	820	821							820	821							820	821								820	821								
	1000	102	F	F	F	F	F	F	F	F	F	F	F	F	F	G	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	G	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	G	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	G	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	G	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	G	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	G	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	G	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	G	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	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F			
	6800	682	F	F	F	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			
	8200	822	F	F	F	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			
	Cap (µF)	0.010	F	F	F	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			
	0.015	153	F	F	F	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			
	0.018	183	F	F	F	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			
	0.022	223	F	F	F	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			
	0.027	273	F	F	F	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			
	0.033	333	F	F	F	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			
	0.039	393	F	F	F	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			
	0.047	473	F	F	F	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			
	0.056	563	F	F	F	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			
	0.068	683	F	F	F	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			
	0.082	823	F	F	F	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			
	0.100	104	F	F	F	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			
	0.150	154	F	F	F	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			
	0.220	224	F	F	F	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			
	0.270	274	F	F	F	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			
	0.330	334	F	F	F	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			
	0.390	394	F	F	F	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			
	0.470	474	F	F	F	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			
	0.560	564	G	G					G	G							F	F							F	F									
	0.680	684							G	G							G	G							G	G									
	0.820	824							G	G							G	G							G	G									
	1.000	105							G	G							G	G							G	G									
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

