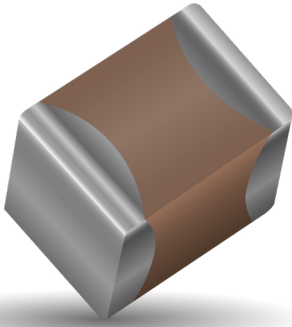


High Voltage MLC Chips

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 chip 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.

Larger physical sizes than normally encountered chips are used to make high voltage MLC chip products. Special precautions must be taken in applying these chips in surface mount assemblies. The temperature gradient during heating or cooling cycles should not exceed 4°C per second. The preheat temperature must be within 50°C of the peak temperature reached by the ceramic bodies through the soldering process. Chip sizes 1210 and larger should be reflow soldered only. Capacitors may require protective surface coating to prevent external arcing.

For 1825, 2225 and 3640 sizes, AVX offers leaded version in either thru-hole or SMT configurations (for details see section on high voltage leaded MLC chips)

NEW 630V RANGE

HOW TO ORDER

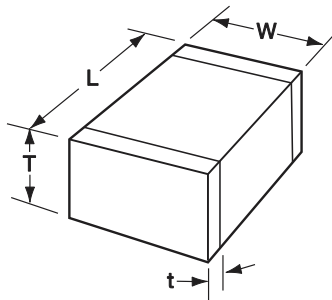
1808	A	A	271	M	A	1	2	A
AVX Style	Voltage	Temperature Coefficient	Capacitance Code (2 significant digits + no. of zeros) Examples:	Capacitance Tolerance COG: J = ±5% K = ±10% M = ±20% X7R: K = ±10% M = ±20% Z = +80%, -20%	Test Level A = Standard	Termination*	Packaging**	Special Code A = Standard
0805	600V/630V = C	NPO (COG) = A	10 pF = 100			1 = Pd/Ag	1 or 2 = 7" Reel**	
1206	1000V = A	X7R = C	100 pF = 101			T = Plated Ni and Sn (RoHS Compliant)	3 or 4 = 13" Reel	
1210	1500V = S		1,000 pF = 102					
1808	2000V = G		22,000 pF = 223					
1812	2500V = W		220,000 pF = 224					
1825	3000V = H		1 μF = 105					
1825	4000V = J							
2220	5000V = K							
2225								
3640								

*Note: Terminations with 5% minimum lead (Pb) is available, see pages 100 and 101 for LD style. Lead terminations are available, see pages 102-106.

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.

**The 3640 Style is not available on 7" Reels.

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



DIMENSIONS

MILLIMETERS (INCHES)

SIZE	0805	1206	1210*	1808*	1812*	1825*	2220*	2225*	3640*
(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)	5.72 ± 0.25 (0.225 ± 0.010)	9.14 ± 0.25 (0.360 ± 0.010)
(W) Width	1.25 ± 0.20 (0.049 ± 0.008)	1.60 ± 0.20 (0.063 ± 0.008)	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)	6.35 ± 0.25 (0.250 ± 0.010)	10.2 ± 0.25 (0.400 ± 0.010)
(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)	2.54 (0.100)	2.54 (0.100)
(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)	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 (0.060)

*Reflow Soldering Only



The Important Information/Disclaimer is incorporated in these specifications by reference and should be reviewed in full before placing any order.

For 600V to 5000V Applications



NP0 (C0G) DIELECTRIC – PERFORMANCE CHARACTERISTICS

Capacitance Range	10 pF to 0.100 μ F (25°C, 1.0 $\pm$ 0.2 Vrms at 1kHz, for $\leq$ 1000 pF use 1 MHz)
Capacitance Tolerances	$\pm$ 5%, $\pm$ 10%, $\pm$ 20%
Dissipation Factor	0.1% max. (+25°C, 1.0 $\pm$ 0.2 Vrms, 1kHz, for $\leq$ 1000 pF use 1 MHz)
Operating Temperature Range	-55°C to +125°C
Temperature Characteristic	0 $\pm$ 30 ppm/°C (0 VDC)
Voltage Ratings	600, 630, 1000, 1500, 2000, 2500, 3000, 4000 & 5000 VDC (+125°C)
Insulation Resistance (+25°C, at 500 VDC)	100K M Ω min. or 1000 M Ω $\cdot$ μ F min., whichever is less
Insulation Resistance (+125°C, at 500 VDC)	10K M Ω min. or 100 M Ω $\cdot$ μ F 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									
(L) Length	mm (in.)	Reflow/Wave				Reflow/Wave				Reflow Only						Reflow Only						Reflow Only									
(W) Width	mm (in.)	2.10 ± 0.20 (0.085 ± 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 (0.177 ± 0.012)									
(T) Thickness	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 ± 0.008)									
(t) Terminal	mm (in.)	1.35 (0.053)				1.80 (0.071)				2.80 (0.110)						2.20 (0.087)						2.80 (0.100)									
		0.50 ± 0.20 (0.020 ± 0.008)				0.60 ± 0.20 (0.04 ± 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	3000	600	630	1000	1500	2000	2500	3000	4000	600	630	1000	1500	2000	2500	3000	4000
Cap (pF)	.5 0R5		A	C																											
	1.0 1R0		A	C																											
	1.2 1R2		A	C																											
	1.5 1R5	A	A	C	X	X	X	X	X																						
	1.8 1R8	A	A	C	X	X	X	X	X	X																					
	2.2 2R2	A	A	C	X	X	X	X	X	X								C	C		C		C	C							
	2.7 2R7	A	A	C	X	X	X	X	X	X								C	C	C	C	C	C	C							
	3.3 3R3	A	A	C	X	X	X	X	X	X								C	C	C	C	C	C	C							
	3.9 3R9	A	A	C	X	X	X	X	X	X								C	C	C	C	C	C	C							
	4.7 4R7	A	A	C	X	X	X	X	X	X								C	C	C	C	C	C	C							
	5.6 5R6	A	A	C	X	X	X	X	X	X								C	C	C	C	C	C	C							
	6.8 6R8	A	A	C	X	X	X	X	X	X								C	C	C	C	C	C	C							
	8.2 8R2	A	A	C	X	X	X	X	X	X								C	C	C	C	C	C	C							
	10 100	A	A	C	X	X	X	X	X	X	C	M	M	D	M	F	C	C	C	C	C	C	C	C	C	C	C	C	C	E	
	12 120	A	A	C	X	X	X	X	X	X	C	M	M	D	M	F	C	C	C	C	C	C	C	C	C	C	C	C	C	E	
	15 150	A	A	C	X	X	X	X	X	X	C	M	M	D	M	F	C	C	C	C	C	C	C	C	C	C	C	C	C	E	
	18 180	A	A	C	X	X	X	X	X	X	C	M	M	D	M	F	C	C	C	C	C	C	C	C	C	C	C	C	C	E	
	22 220	A	A	C	X	X	X	X	X	X	C	M	M	D	M	F	C	C	C	C	C	C	C	C	E	C	C	C	C	E	
	27 270	A	A	C	X	X	X	X	X	X	C	M	M	D	M	F	C	C	C	C	C	C	C	C	E	C	C	C	C	E	
	33 330	A	A	C	X	X	X	D	M	C	M	M	D	M	F	C	C	C	C	C	C	C	C	C	F	C	C	C	F	E	
	39 390	A	A	C	X	X	X	D	M	C	M	M	D	M	F	C	C	C	C	C	C	C	C	C	F	C	C	C	F	E	
	47 470	A	A	C	X	X	C	D	M	C	M	M	D	M	F	C	C	C	C	C	C	C	C	C	C	C	C	C	F	E	
	56 560	A	A	C	X	X	C	C	C	C	M	M	C	C	F	C	C	C	C	C	C	C	C	C		C	C	C	F	E	
	68 680	A	A	C	X	X	C	C	C	C	M	M	C	C	F	C	C	C	C	C	C	C	C	C		C	C	C	F	E	
	82 820	X	X	X	X	X	C	C	C	C	M	M	C	C	F	C	C	C	C	C	C	C	C	C		C	C	C	F	E	
	100 101	X	X	X	X	X	C	C	C	C	M	C	C	C	F	C	C	C	C	C	C	F	F			C	C	C	F	E	
	120 121	C	C	C	X	X	C	E	E	C	M	C	C	C	F	C	C	C	C	C	C	F	F			C	C	C	F	E	
	150 151	C	C	C	X	X	C	E	E	C	M	C	E	E	F	C	C	C	F	F	F	F				C	C	C	F	E	
	180 181	C	C	C	X	X	E	E	E	C	M	E	E	E	F	C	C	C	F	F	F	F				C	C	C	F	E	
	220 221	C	C	C	X	X	E	E	E	C	M	E	E	E	F	C	C	C	F	F	F	F				C	C	C	F	E	
	270 271	C	C	C	C	M	E	E	E	C	M	E	E	E	G	C	F	C	F	F	F	F				C	C	C	F	E	
	330 331	C	C	C	C	M	E	E	E	C	M	E	E	E		C	F	F	F	F	F	F				C	C	C	F	E	
	390 391	C	C	C		M	E	E	E	C	M	E	E	E		C	F	F	F	F	F	F				C	C	C	F	E	
	470 471	C	C	C	C	M	E	E	E	C	M	E	E	E		C	F	F	F	F	F	F				C	C	C	F	E	
	560 561	C	C	C	C	E				C	M	E	E	E		C	F	F	F	F	F	F				C	C	C	F	E	
	680 681	C	C	C	C	E				C	M	E	F	E		C	F	F	F	F	F	F				C	C	C	F	E	
	750 751	C	C	C	E	E	E			C	M	E	G	E		C	F	F	F	F	F	F				C	C	C	F	E	
	820 821	C	C	C	E	E	E			C	M	E	G	E		C	F	F	E	F	F	F				C	C	C	F	E	
	1000 102	C	C	C	E	E	E			C	C	E	F	F		C	F	F	E	F	F	F				C	C	C	F	E	
	1200 122	C	C	C	E	E	E			C	C	E	F	F		C	F	F	E	F	F	F				C	C	C	F	E	
	1500 152	C	C	C	E	E	E			C	C	F	G	G		E	F	F	F	F	F	F				C	C	C	F	E	
	1800 182	C	C	C	E	E	E			C	C	G	G	G		E	F	F	F	F	F	F				C	C	C	F	E	
	2200 222	C	C	C	E	E	E			E	C	G	G	G		E	F	F	F	F	F	F				C	C	C	F	E	
	2700 272	C	C	C	E	E	E			E	C	G	G	G		E	F	F	F	F	F	F				C	C	C	F	E	
	3300 332	C	C	C	E	E	E			E	C	G	G	G		E	F	F	F	F	F	F				C	C	C	F	E	
	3900 392	C	C	C	E	E	E			E	C	G	G	G		E	F	F	F	F	F	F				C	C	C	F	E	
	4700 472	C	C	C	E	E	E			E	C	G	G	G		E	F	F	F	F	F	F				C	C	C	F	E	
	5600 562	C	C	C	E	E	E			E	C	G	G	G		E	F	F	F	F	F	F				C	C	C	F	E	
	6800 682	C	C	C	E	E	E			E	C	G	G	G		E	F	F	F	F	F	F				C	C	C	F	E	
	8200 822	C	C	C	E	E	E			E	C	G	G	G		E	F	F	F	F	F	F				C	C	C	F	E	
Cap (uF)	0.010 103																										E	C			
	0.012 123																										F	F			
	0.015 153																										G	G			
	0.018 183																										G	G			
	0.022 223																										F	F			
	0.027 273																										G	G			
	0.033 333																										G	G			
	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	3000	600	630	1000	1500	2000	2500	3000	4000	600	630	1000	1500	2000	2500	3000	4000
Case Size		0805				1206				1210						1808						1812									

Letter	A	C	E	F	G	X	7
Max. Thickness	0.813 (0.032)	1.448 (0.052)	1.8034 (0.071)	2.2098 (0.087)	2.794 (0.110)	0.940 (0.037)	3.30 (0.130)

NOTE: Contact factory for non-specified capacitance values

For 600V to 5000V Applications



NPO (C0G) 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)								5.70 ± 0.50 (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)								6.30 ± 0.40 (0.250 ± 0.010)								10.2 ± 0.25 (0.400 ± 0.010)										
(T) Thickness	3.40 (0.134)								3.40 (0.134)								3.40 (0.100)								2.54 (0.100)										
(t) Terminal max	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 (0.060)										
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)	1.5	1R5																																	
	18	1R8																																	
	22	2R2																																	
	27	2R7																																	
	33	3R3																																	
	39	3R9																																	
	47	4R7																																	
	56	5R6																																	
	68	6R8																																	
	82	8R2																																	
	10	100	E	E	G	E	F	E	F	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	F								
	12	120	E	E	G	E	F	E	F	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	F								
	15	150	E	E	G	E	F	E	F	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	F								
	18	180	E	E	G	E	F	E	F	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	F								
	22	220	E	E	G	E	F	E	F	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	F								
	27	270	E	E	G	E	F	E	F	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	F								
	33	330	E	E	G	E	F	E	F	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	F								
	39	390	E	E	G	E	F	E	F	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	F								
	47	470	E	E	G	E	F	E	F	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	G							G	
	56	560	E	E	G	E	F	E	F	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	G							G	
	68	680	E	E	G	E	F	E	F	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	G							G	
	82	820	E	E	G	E	F	E	F	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	G							G	
	100	101	E	E	G	E	F	E	F	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	G	G				G	G	G	G	
	120	121	E	E	G	E	F	E	F	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	G	G				G	G	G	G	
	150	151	E	E	G	E	F	E	F	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	G	G				G	G	G	G	
	180	181	E	E	G	E	F	E	F	F	E	E	E	E	E	E	E	F	F	E	E	E	E	E	E	G	G				G	G	G	G	
	220	221	E	E	G	E	F	E	F	F	E	E	E	E	E	E	E	F	F	E	E	E	E	E	E	G	G				G	G	G	G	
	270	271	E	E	G	E	F	E	F	F	E	E	E	E	E	E	E			E	E	E	E	E	E	G	G				G	G	G	G	
	330	331	E	E	G	E	F	E	F	F	E	E	E	E	E	E	E			E	E	E	E	E	E	G				G	G	G	G	G	
	390	391	E	E	G	E	F	E	F		E	E	E	E	E	E	E			E	E	E	E	E	E	G				G	G	G	G	G	
	470	471	E	E	G	E	F	E	F		E	E	E	E	E	E	E			E	E	E	E	E	E	G				G	G	G	G	G	
	560	561	E	E	G	E	F	E	F		E	E	E	E	E	E	E			E	E	E	E	E	E	G				G	G	G	G	G	
	680	681	E	E	G	E	F	F	G		E	E	E	E	E	F	F			E	E	E	E	E	E					G	G	G	G	G	
	750	751	E	E	G	E	F	F	G		E	E	E	E	E	F	F			E	E	E	E	E	E					G	G	G	G	G	
	820	821	E	E	G	E	F	F	G		E	E	E	E	E	F	F			E	E	E	E	F	E					G	G	G	G	G	
	1000	1002	E	E	G	E	F	F	G		E	E	E	E	E	F	F			E	E	E	E	E	E			G	G	G	G	G	G	G	
	1200	122	E	E	G	E	F	G	G		E	E	E	E	E	G	G			E	E	E	E	F	F			G	G	G	G	G	G	G	
	1500	152	E	E	G	F	G	G	G		E	E	E	F	F	G	G			E	E	E	E	F	F			G	G	G	G	G	G	G	
	1800	182	E	E	G	F	G	G	G		E	E	E	F	F	G	G			E	E	E	E	G	G			G	G	G	G	G	G	G	
	2200	222	E	E	G	G	G	G		G		E	E	E	G	G			E	E	E	E	E					G	G	G	G	G	G	G	
	2700	272	E	E	G	G	G		G		E	E	E	G	G					E	E	E	F	F				G	G	G	G	G	G	G	
	3300	332	E	E	G	G	G				E	E	E	G	G					E	E	E	F	F				G	G	G	G	G	G		
	3900	392	E	E	G	G	G				E	E	E	G	G					E	E	E	G	G				G	G	G	G	G	G		
	4700	472	E	E	G	G	G				E	E	E	G	G					F	F	F	G	G				G	G	G	G	G			
	5600	562	F	F	G	G	G				F	F	F	G	G					F	F	F	G	G				G	G	G	G	G			
	6800	682	F	F	G		G				F	F	F							F	F	F	G	G				G	G	G	G	G			
	8200	822	G	G	G						G	G	G							G	G	G						G	G	G	G				
Cap (µF)	0.010	103	F	E	G						7	7	7							G	G	G						G	G	G	G				
	0.012	123		E	G															G	G							G	G	G					
	0.015	153		E																G	G							G	G	G					
	0.018	183		E																G	G							G	G	G					
	0.022	223		E																G	G							G	G	G					
	0.027	273		F																															
	0.033	333		F																G	G							G	G						
	0.039	393		G																															
	0.047	473		G																G	G							G	G						
	0.056	563		G																G	G														
	0.068	683		G																G	G														
	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	600	630	1000	1500	2000	2500	3000	4000	5000
Case Size	1825								2220								2225								3640										
Letter	A		C		E		F		G		X		7		NOTE: Contact factory for non-specified capacitance values																				
Max. Thickness	0.813 (0.032)		1.448 (0.057)		1.8034 (0.071)		2.2098 (0.087)		2.794 (0.110)		0.940 (0.037)		3.30 (0.130)																						

High Voltage MLC Chips

For 600V to 5000V Applications



X7R Dielectric

Performance Characteristics

Capacitance Range	10 pF to 0.82 μ F (25°C, 1.0 $\pm$ 0.2 Vrms at 1kHz)
Capacitance Tolerances	$\pm$ 10%; $\pm$ 20%; +80%, -20%
Dissipation Factor	2.5% max. (+25°C, 1.0 $\pm$ 0.2 Vrms, 1kHz)
Operating Temperature Range	-55°C to +125°C
Temperature Characteristic	$\pm$ 15% (0 VDC)
Voltage Ratings	600, 630, 1000, 1500, 2000, 2500, 3000, 4000 & 5000 VDC (+125°C)
Insulation Resistance (+25°C, at 500 VDC)	100K M Ω min. or 1000 M Ω - μ F min., whichever is less
Insulation Resistance (+125°C, at 500 VDC)	10K M Ω min. or 100 M Ω - μ F 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	Reflow/Wave	Reflow/Wave	Reflow Only	Reflow Only	Reflow Only
(L) Length	mm (in.) 2.10 $\pm$ 0.20 (0.085 $\pm$ 0.008)	3.30 $\pm$ 0.30 (0.130 $\pm$ 0.012)	3.30 $\pm$ 0.40 (0.130 $\pm$ 0.016)	4.60 $\pm$ 0.50 (0.181 $\pm$ 0.020)	4.60 $\pm$ 0.50 (0.177 $\pm$ 0.012)
(W) Width	mm (in.) 1.25 $\pm$ 0.20 (0.049 $\pm$ 0.008)	1.60 $\pm$ 0.30/-0.10 (0.063 $\pm$ 0.012/-0.004)	2.50 $\pm$ 0.30 (0.098 $\pm$ 0.012)	2.00 $\pm$ 0.20 (0.079 $\pm$ 0.008)	3.20 $\pm$ 0.30 (0.126 $\pm$ 0.008)
(T) Thickness	mm (in.) 1.35 (0.053)	1.80 (0.071)	2.80 (0.110)	2.20 (0.087)	2.80 (0.100)
(t) Terminal	mm max 0.50 $\pm$ 0.20 (0.020 $\pm$ 0.008)	0.60 $\pm$ 0.20 (0.024 $\pm$ 0.008)	0.75 $\pm$ 0.35 (0.030 $\pm$ 0.014)	0.75 $\pm$ 0.35 (0.030 $\pm$ 0.014)	0.75 $\pm$ 0.35 (0.030 $\pm$ 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)	100 101 120 121 150 151 180 181 220 221 270 271 330 331 390 391 470 471 560 561 680 681 750 751 820 821 1000 102 1200 122 1500 152 1800 182 2200 222 2700 272 3300 332 3900 392 4700 472 5600 562 6800 682 8200 822 Cap (μ F) 0.010 103 0.015 153 0.018 183 0.022 223 0.027 273 0.033 333 0.039 393 0.047 473 0.056 563 0.068 683 0.082 823 0.100 104 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	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 1200 122 1500 152 1800 182 2200 222 2700 272 3300 332 3900 392 4700 472 5600 562 6800 682 8200 822 Cap (μ F) 0.010 103 0.015 153 0.018 183 0.022 223 0.027 273 0.033 333 0.039 393 0.047 473 0.056 563 0.068 683 0.082 823 0.100 104 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	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 1200 122 1500 152 1800 182 2200 222 2700 272 3300 332 3900 392 4700 472 5600 562 6800 682 8200 822 Cap (μ F) 0.010 103 0.015 153 0.018 183 0.022 223 0.027 273 0.033 333 0.039 393 0.047 473 0.056 563 0.068 683 0.082 823 0.100 104 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	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 1200 122 1500 152 1800 182 2200 222 2700 272 3300 332 3900 392 4700 472 5600 562 6800 682 8200 822 Cap (μ F) 0.010 103 0.015 153 0.018 183 0.022 223 0.027 273 0.033 333 0.039 393 0.047 473 0.056 563 0.068 683 0.082 823 0.100 104 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	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 1200 122 1500 152 1800 182 2200 222 2700 272 3300 332 3900 392 4700 472 5600 562 6800 682 8200 822 Cap (μ F) 0.010 103 0.015 153 0.018 183 0.022 223 0.027 273 0.033 333 0.039 393 0.047 473 0.056 563 0.068 683 0.082 823 0.100 104 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

Letter	A	C	E	F	G	X	7
Max. Thickness	0.813 (0.032)	1.448 (0.057)	1.8034 (0.071)	2.2098 (0.087)	2.794 (0.110)	0.940 (0.037)	3.30 (0.130)

NOTE: Contact factory for non-specified capacitance values

For 600V to 5000V Applications



X7R CAPACITANCE RANGE
PREFERRED SIZES ARE SHADED

[illegible]

Letter	A	C	E	F	G	X	7
Max. Thickness	0.813 (0.032)	1.448 (0.057)	1.8034 (0.071)	2.2098 (0.087)	2.794 (0.110)	0.940 (0.037)	3.30 (0.130)

NOTE: Contact factory for non-specified capacitance values



**Стандарт
Электрон
Связь**

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