

FLEXITERM™ V+ MLC Chips

For High Voltage 600V to 3000V 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™ V+.

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	A	271	K	A	Z	1	A
AVX Style	Voltage	Temperature Coefficient	Capacitance Code	Capacitance Tolerance	Test Level	Termination	Packaging	Special Code
1206	600V = C	C0G = A	(2 significant digits + no. of zeros)	C0G: J = ±5%	A = Standard	Z = FLEXITERM™	1 = 7" Reel	A = Standard
1210	1000V = A	X7R = C	Examples:	K = ±10%		X = FLEXITERM™	3 = 13" Reel	
1808	1500V = S		10 pF = 100	M = ±20%		Tin Lead	9 = Bulk	
1812	2000V = G		100 pF = 101	X7R: K = ±10%				
2220	2500V = W		1,000 pF = 102	M = ±20%				
	3000V = H		22,000 pF = 223	Z = +80%, -20%				
			220,000 pF = 224					
			1 µF = 105					

HIGH VOLTAGE X7R FLEXITERM™ CAPACITANCE VALUES

VOLTAGE		1206	1210	1808	1812	2220
600	min	150pF	150pF	150pF	1000pF	0.010µF
	max	0.015µF	0.027µF	0.033µF	0.068µF	0.15µF
1000	min	150pF	150pF	150pF	150pF	1000pF
	max	4700pF	0.010µF	0.015µF	0.027µF	0.068µF
1500	min	150pF	150pF	150pF	150pF	1000pF
	max	1200pF	2700pF	3900pF	8200pF	0.022µF
2000	min	150pF	150pF	150pF	150pF	330pF
	max	1000pF	1000pF	1800pF	4700pF	0.01µF
2500	min	—	—	150pF	150pF	330pF
	max	—	—	1200pF	2200pF	6800pF
3000	min	—	—	150pF	150pF	330pF
	max	—	—	1000pF	1200pF	3300pF

L	3.00-3.40mm	3.00-3.40mm	4.32-4.82mm	4.20-4.80mm	5.30-6.10mm
W	1.40-1.80mm	2.30-2.70mm	1.78-2.28mm	3.00-3.40mm	4.60-5.40mm
T	0.74-1.75mm	0.81-1.70mm	1.29-2.03mm	0.81-2.54mm	1.29-3.05mm

