

FLEXISAFE MLC Chips

For Ultra Safety Critical Applications



AVX have developed a range of components specifically for safety critical applications.

Utilizing the award-winning FLEXITERM™ layer in conjunction with the cascade design previously used for high voltage MLCCs, a range of ceramic capacitors is now available for customers who require components designed with an industry leading set of safety features.

The FLEXITERM™ layer protects the component from any damage to the ceramic resulting from mechanical stress during PCB assembly or use with end customers. Board flexure type mechanical damage accounts for the majority of MLCC failures. The addition of the cascade structure protects the component from low insulation resistance failure resulting from other common causes for failure; thermal stress damage, repetitive strike ESD damage and placement damage. With the inclusion of the cascade design structure to complement the FLEXITERM™ layer, the FLEXISAFE range of capacitors has unbeatable safety features.

HOW TO ORDER

FS03	5	C	104	K	Q	Z	2	A
Size	Voltage	Dielectric		Capacitance Code (In pF)	Capacitance Tolerance	Terminations	Packaging	Special Code
FS03 = 0603	16V = Y	X7R = C		2 Sig. Digits + Number of Zeros	J = ±5% K = ±10% M = ±20%	Z = FLEXITERM™ X = FLEXITERM™ with 5% min lead	2 = 7" Reel 4 = 13" Reel	A = Std. Product
FS05 = 0805	25V = 3			e.g. 10μF = 106				
FS06 = 1206	50V = 5							
FS10 = 1210	100V = 1							

*Not RoHS Compliant

FLEXISAFE X7R RANGE

Capacitance Code	FS03 = 0603			FS05 = 0805			FS06 = 1206			FS10 = 1210			FS20 = 2220			
	Soldering			Reflow/Wave			Reflow/Wave			Reflow/Wave			Reflow Only			Reflow Only
	16	25	50	100	16	25	50	100	16	25	50	100	16	25	50	100
102 μF 0.001																
182																
222																
332																
472																
103	0.01															
123	0.012															
153	0.015															
183	0.018															
223	0.022															
273	0.027															
333	0.033															
473	0.047															
563	0.056															
683	0.068															
823	0.082															
104	0.1															
124	0.12															
154	0.15															
224	0.22															
334	0.33															
474	0.47															
105	1															

Qualified

