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	<u>5</u>	C	104	K T	<u>Q</u>	<u>z</u>	<u>2</u>	A
Size FS03 = 0603 FS05 = 0805 FS06 = 1206 FS10 = 1210	Voltage 16V = Y 25V = 3 50V = 5 100V = 1	Dielectric X7R = C	Capacitance Code (In pF) 2 Sig. Digits + Number of Zeros e.g. 10µF =106	Capacitance Tolerance $J = \pm 5\%$ $K = \pm 10\%$ $M = \pm 20\%$	Failure Rate A = Commercial 4 = Automotive Q = APS	Terminations Z = FLEXITERM™ 'X = FLEXITERM™ with 5% min lead *Not RoHS Compliant	Packaging 2 = 7" Reel 4 = 13" Reel	Special Code A = Std. Product

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	0.0018																
222	0.0022																
332	0.0033																
472	0.0047																
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																



