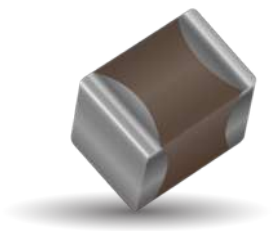
FLEXISAFE MLC Chips

General Specifications and Capacitance Range For Ultra Safety Critical Applications



KYOCERA 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. Flexisafe capacitors are qualified in accordance with AEC-Q200 standard. AEC-Q200 detailed qualification data is available on request

HOW TO ORDER

FS05	5	C	104	K	Q	Z	2	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 = ±5% K = ±10% M = ±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

CAPACITANCE RANGE FLEXISAFE X7R

SIZE		FS03 = 0603				FS05 = 0805				FS06 = 1206			FS10 = 1210		
WVDC		16	25	50	100	16	25	50	100	16	25	50	16	25	50
102	1000	G	G	G	G	J	J	J	J	J	J	J			
182	1800	G	G	G	G	J	J	J	J	J	J	J			
222	2200	G	G	G	G	J	J	J	J	J	J	J			
332	3300	G	G	G	G	J	J	J	J	J	J	J			
472	4700	G	G	G	G	J	J	J	J	J	J	J			
682	6800	G	G	G	G	J	J	J	J	J	J	J			
103	0.01	G	G	G	G	J	J	J	J	J	J	J			
123	0.012	G	G	G		J	J	J	J	J	J	J			
153	0.015	G	G	G		J	J	J	J	J	J	J			
183	0.018	G	G	G		J	J	J	J	J	J	J			
223	0.022	G	G	G		N	N	N	N	J	J	J			
273	0.027					N	N	N	N	J	J	J			
333	0.033					N	N	N	N	J	J	J			
473	0.047					N	N	N	N	M	M	M			
563	0.056					N	N	N	N	M	M	M			
683	0.068					N	N	N	N	M	M	M			
823	0.082					N	N	N	N	M	M	M			
104	0.1					N	N	N	N	M	M	M			
124	0.12									M	M	M			
154	0.15									M	M	M	Q	Q	Q
224	0.22												Q	Q	Q
334	0.33												Q	Q	Q
474	0.47												Q	Q	Q

Letter	G	J	M	N	Q
Max. Thickness	0.90 (0.035)	0.94 (0.037)	1.27 (0.050)	1.40 (0.055)	1.78 (0.070)
	PAPER		EMBOSSED		

RoHS COMPLIANT

The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.