

AVX Ceramic Chip Capacitors and Voltage Suppressors



AVX FLEXISAFE MULTILAYER CERAMIC CHIP CAPACITORS

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.

STYLE 0805

For quantities greater than listed, call for quote.

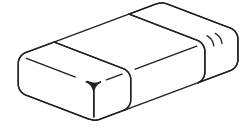
MOUSER STOCK NO.	AVX Part Number	Temp. Coef.	Value (μF)	Price Each					Reel	
				1	50	100	500	1000	Qty. Per Reel	Price Per Piece
581-FS055C102KAZ2A	FS055C102KAZ2A	X7R	1000pF	.37	.33	.22	.12	.08	2000	.06
581-FS055C103KAZ2A	FS055C103KAZ2A	X7R	0.01	.37	.33	.22	.12	.08	2000	.06
581-FS055C104KAZ2A	FS055C104KAZ2A	X7R	0.1	.49	.35	.29	.16	.11	2000	.08



STYLE 1206

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	AVX Part Number	Temp. Coef.	Value (μF)	Price Each					Reel	
				1	50	100	500	1000	Qty. Per Reel	Price Per Piece
581-FS065C102KAZ2A	FS065C102KAZ2A	X7R	1000pF	.44	.35	.26	.15	.104	4000	.07



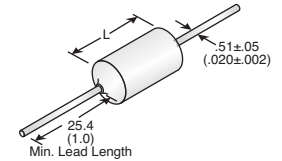
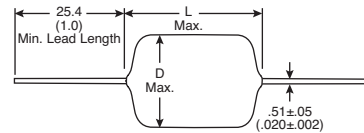
AVX TRANSGUARD™ AXIAL CERAMIC TRANSIENT VOLTAGE SUPPRESSORS

The AVX TransGuard™ Transient Voltage Suppressors (TVS) with unique high-energy multilayer construction represents state-of-the-art overvoltage circuit protection. Monolithic multilayer construction provides protection from voltage transients caused by ESD, lightning, Nuclear Explosion Magnetic Pulse (NEMP), inductive switching, etc. True surface mount product is provided in EIA industry standard packages.

TransGuard products are zinc oxide (ZnO) based ceramic semiconductor devices with non-linear voltage-current characteristics (bi-directional) similar to back-to-back zener diodes. They have the added advantage of greater current and energy handling capabilities as well as EMI/RFI attenuation. Devices are fabricated by ceramic sintering process that yields a structure of conductive ZnO grains surrounded by electrically insulating barriers, creating varistor-like behavior.

DIMENSIONS: mm (in.)

Size	L	D
1000	4.32 (0.170)	2.54 (0.100)
2000	4.83 (0.190)	3.56 (0.140)



For quantities of 2000 and up, call for quote.

MOUSER STOCK NO.	AVX Part Number	Working Voltage (DC)	Working Voltage (AC)	Breakdown Voltage (V@1mA _{DC})	Clamping Voltage (V@I _{VC})	Test Current For V _c (A, 8x20μS)	Max. Leakage Current (μA)	Transient Energy Rating Joules (J)	Peak Current Rating (A, 8x20μS)	Typical Cap (pF)	Freq.	Price Each			
												1	100	500	1000
581-VA100003A100DL	VA100003A100DL	3.3	2.3	5.0±20%	12	1	100	0.1	40	1500	K	.49	.41	.37	.30
581-VA100003D100DL	VA100003D100DL	3.3	2.3	5.0±20%	12	1	100	0.4	150	4700	K	.64	.53	.48	.38
581-VA100005A150DL	VA100005A150DL	5.6	4.0	8.5±20%	18	1	35	0.1	40	1000	K	.41	.348	.328	.30
581-VA100005D150DL	VA100005D150DL	5.6	4.0	8.5±20%	18	1	35	0.4	150	2800	K	.53	.453	.427	.38
581-VA100014A300DL	VA100014A300DL	14.0	10.0	18.5±12%	32	1	15	0.1	40	325	K	.49	.41	.37	.30
581-VA100014D300DL	VA100014D300DL	14.0	10.0	18.5±12%	32	1	15	0.4	150	1100	K	.53	.453	.427	.38
581-VA100018A400DL	VA100018A400DL	18.0	13.0	25.5±10%	42	1	10	0.1	40	350	K	.49	.41	.37	.30
581-VA100018D400DL	VA100018D400DL	18.0	13.0	25.5±10%	42	1	10	0.4	150	900	K	.53	.453	.427	.38
581-VA100026D580DL	VA100026D580DL	26.0	18.0	34.5±10%	60	1	10	0.4	120	650	K	.53	.485	.427	.38
581-VA100030D650DL	VA100030D650DL	30.0	21.0	41.0±10%	67	1	10	0.4	120	500	K	.64	.53	.48	.38
581-VA100048D101DL	VA100048D101DL	48.0	34.0	62.0±10%	100	1	10	0.4	100	200	K	.64	.53	.48	.38
581-VA200060K121DL	VA200060K121DL	60.0	42.0	76.0±10%	120	1	10	2.0	300	400	K	1.01	.84	.76	.61