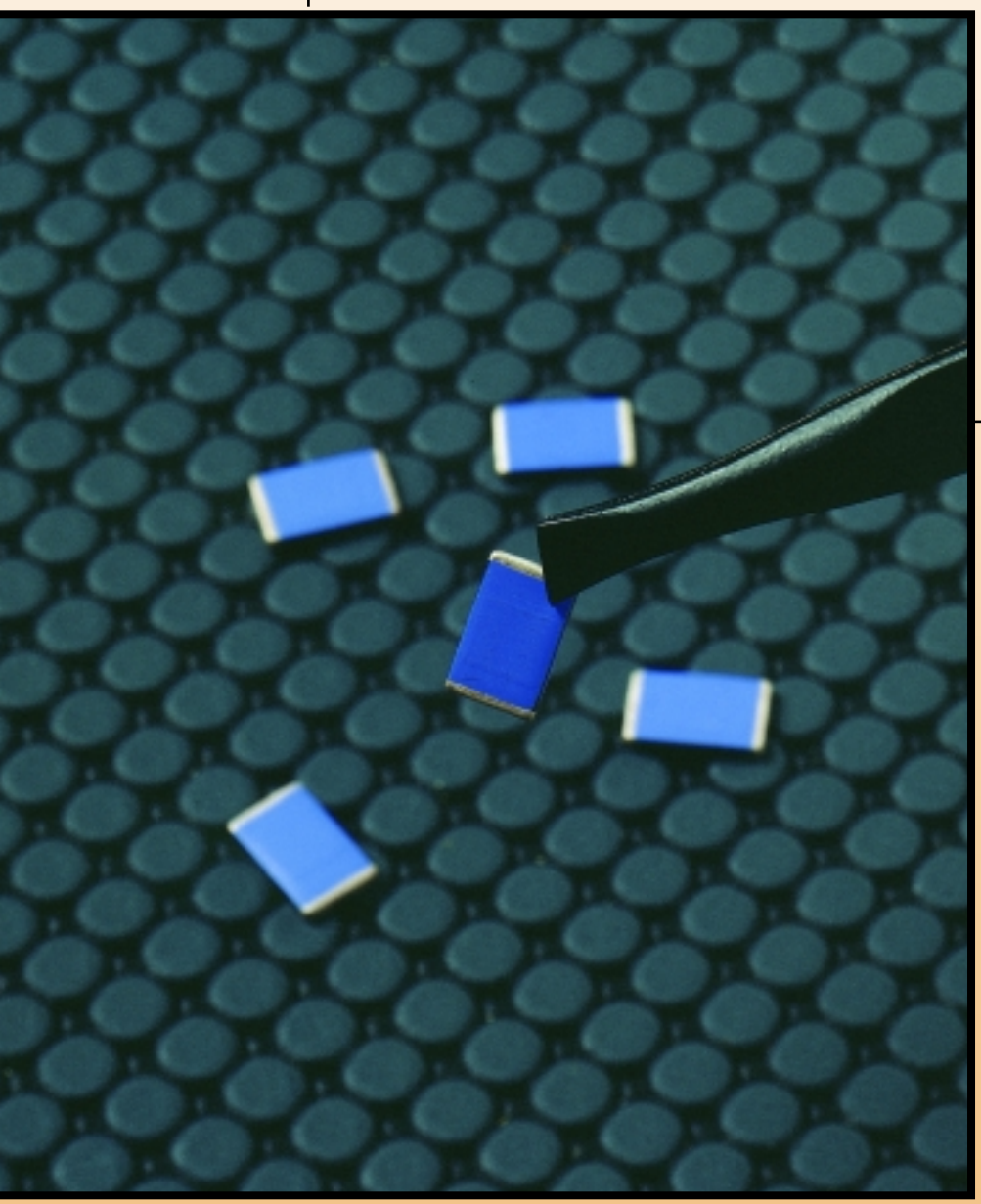


SMT

SERIES

The SMT Series, designed for Surface Mount applications, are small varistors manufactured in a leadless monoblock form. These Surface Mount varistors have significantly lower profiles then our radial-leaded varistors, thus allowing designers to significantly reduce the size of their PC board designs. The SMT varistors are available in a variety of voltages ranging from 10 to 275 VAC. Dimensions for the SMT varistors are 0.320" x 0.200" with a 0.080" maximum thickness. All sizes are available in Tape and Reel and bulk packaging.

Style Designation

The Maida style number is the primary means to identify our components when ordered. The style number identifies several parameters that are important for the characteristics of the device. Observe the following part numbering system when ordering our components:

8 S 17 SM _ _ _

1. Shape Designation
   8 – Rectangular block
2. Size Designation
   S – 0.320 x 0.200
3. Lead Configuration code
   17 – Stands for no leads
4. Part Topology Identifier
   SM – Surface Mount
5. AC Voltage Rating code, 2 significant figures plus number of zeroes that follow, e.g. 151 is 150 VAC.

An example of a typical Maida style number is 8S17SM750. This style number displays a Surface Mount component with a rectangular shape of 0.320 x 0.200 inches. The continuous AC voltage rating for this component is 75VAC.

Standard Marking

These parts currently do not have a standard marking. A special marking is available upon request.

How to Order the SMT Series

The following specifications table provides a way to match the Maida style number to a SMT varistor that provides the necessary specifications for a specific application. All SMT varistors are shipped in Tape and Reel packaging. To order in bulk packaging, apply a "B" at the end of the style number. Contact our engineering department for additional information.

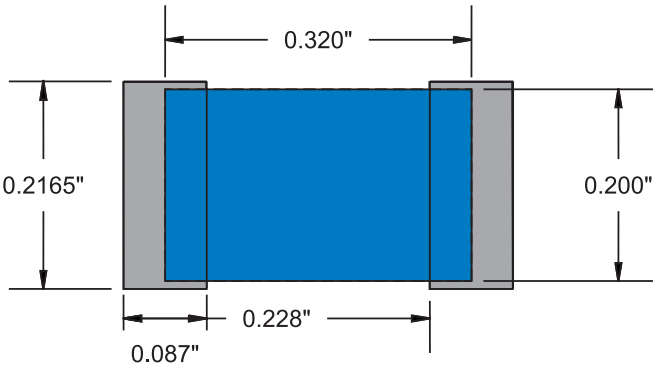
SPECIFICATIONS

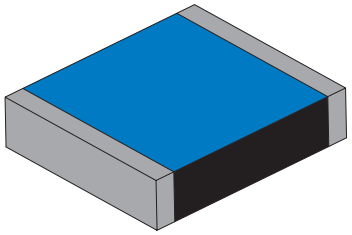
10 to 275 VAC Varistors

Maida Style Number	Recognitions To Safety Agency Standards						Minimum Marking	Maximum Ratings				Electrical Characteristics				
								CONTINUOUS		TRANSIENT		Varistor Voltage @1 mA DC		Max Clamping Voltage (@Test Current)		Typical Cap.
								Applied Voltage		Energy	Peak Current 8 x 20 µsec # Pulses					1 V rms @1kHz
										10 x 1000 µsec	1	Vmin	Vmax	(8 x 20µsec)		
	A	B	C	D	E	F		(AC)	(DC)	(J)	(A)	(V)	(V)	(V)	(A)	(pF)
8S17SM100	X							10	14	0.6	250	14.4	21.6	42	5	2000
8S17SM140	X							14	18	0.8	250	18.7	26	47	5	1600
8S17SM170	X							17	22	1	250	23	31.1	57	5	1300
8S17SM200	X							20	26	1.2	250	29.5	36.5	68	5	1100
8S17SM250	X							25	31	1.5	250	35	43	79	5	900
8S17SM300	X							30	38	1.8	250	42	52	92	5	800
8S17SM350	X							35	45	2.3	250	50	62	107	5	700
8S17SM400	X							40	56	3	250	61	75	127	5	600
8S17SM500	X							50	66	4	500	74	91	135	10	500
8S17SM600	X							60	81	5	500	90	110	165	10	400
8S17SM750	X							75	102	6	500	108	132	200	10	300
8S17SM950	X							95	127	8	500	135	165	250	10	250
8S17SM121	X							120	160	10	500	170	207	295	10	200
8S17SM131	X							130	175	11	500	184	228	340	10	180
8S17SM141	X							140	180	12	500	198	242	360	10	160
8S17SM151	X							150	200	13	500	212	268	395	10	150
8S17SM231	X							230	300	20	500	324	396	595	10	100
8S17SM251	X							250	330	21	500	354	429	650	10	90
8S17SM271	X							270	360	23	500	382	466	710	10	80

NOTES:
A = UL1449 File E86730 - Transient Voltage Surge Suppression
B = UL1414 File E38785 - Across - The Line Applications
C = CSA C22.2 File LR33458

Land Pad Layout





---------- Device
———————— Land Pad

Stadard Dimensions: Inches (mm)

Standard Dimensions : Inches [mm]

Size Code	L ±0.012" ± 0.30mm	W ± 0.012" ±0.30mm	H MAX.	T ± 0.020" ± 0.51mm
8S17SM100	0.320 [8.13]	0.200 [5.08]	0.036 [0.91]	0.030 [0.76]
8S17SM140	0.320 [8.13]	0.200 [5.08]	0.044 [1.12]	0.030 [0.76]
8S17SM170	0.320 [8.13]	0.200 [5.08]	0.054 [1.37]	0.030 [0.76]
8S17SM200	0.320 [8.13]	0.200 [5.08]	0.033 [0.84]	0.030 [0.76]
8S17SM250	0.320 [8.13]	0.200 [5.08]	0.039 [0.99]	0.030 [0.76]
8S17SM300	0.320 [8.13]	0.200 [5.08]	0.047 [1.19]	0.030 [0.76]
8S17SM350	0.320 [8.13]	0.200 [5.08]	0.056 [1.42]	0.030 [0.76]
8S17SM400	0.320 [8.13]	0.200 [5.08]	0.032 [0.81]	0.030 [0.76]
8S17SM500	0.320 [8.13]	0.200 [5.08]	0.039 [0.99]	0.030 [0.76]
8S17SM600	0.320 [8.13]	0.200 [5.08]	0.048 [1.22]	0.030 [0.76]
8S17SM750	0.320 [8.13]	0.200 [5.08]	0.030 [0.76]	0.030 [0.76]
8S17SM950	0.320 [8.13]	0.200 [5.08]	0.038 [0.97]	0.030 [0.76]
8S17SM121	0.320 [8.13]	0.200 [5.08]	0.030 [0.76]	0.030 [0.76]
8S17SM131	0.320 [8.13]	0.200 [5.08]	0.034 [0.86]	0.030 [0.76]
8S17SM141	0.320 [8.13]	0.200 [5.08]	0.036 [0.91]	0.030 [0.76]
8S17SM151	0.320 [8.13]	0.200 [5.08]	0.039 [0.99]	0.030 [0.76]
8S17SM231	0.320 [8.13]	0.200 [5.08]	0.059 [1.50]	0.030 [0.76]
8S17SM251	0.320 [8.13]	0.200 [5.08]	0.064 [1.63]	0.030 [0.76]
8S17SM271	0.320 [8.13]	0.200 [5.08]	0.070 [1.78]	0.030 [0.76]