

## INTRODUCTION

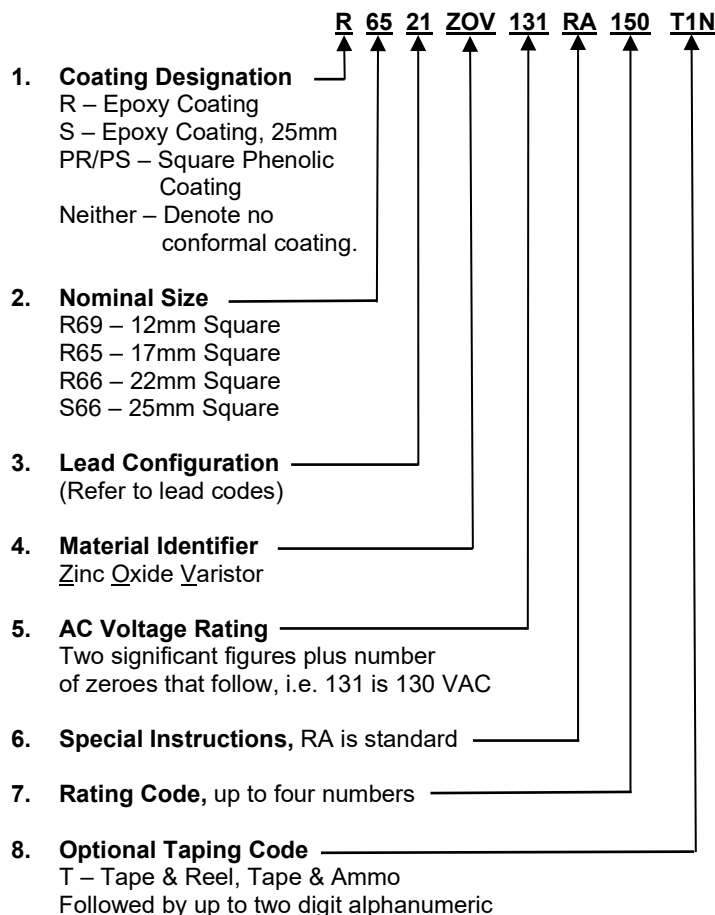
The Low Profile Series compliments our Standard Series as our square, radial-leaded varistors. These components consist of wire leads and have nominal sizes from 12mm to 25mm. They are available with maximum continuous operating voltages (MCOV) ranging from 130VAC to 1000VAC.

The Low Profile Series are designed to fit into spaces that Standard Series electrically equivalent are unable to fit. Most sizes are available in Tape and Reel and ammo pack.

### STYLE DESIGNATION

The Maida Style Number is the typical means to identify our components when ordered. The style number identifies several parameters that are important for the characteristics of the device. An alternative ordering method, if known, is by our Item Number.

The following example is the standard part numbering system when ordering our Low-Profile Series components by the Maida Style Number:



### STANDARD MARKING

Minimum marking shall consist of an abbreviated style designation and, when space is available, the manufacturer's initials or company logo.

Example:

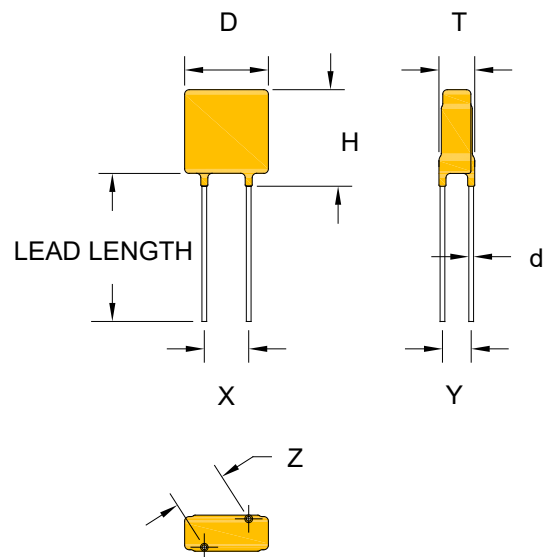
MDC  
 R65  
 131UL

Where:

MDC - Company Initials  
 R65 – Square Size  
 131 – AC Voltage rating (130VAC)  
 UL - UL recognition, if applicable

A manufacturing date code and/or special markings are available upon request.

Other safety agency designations are included where applicable.



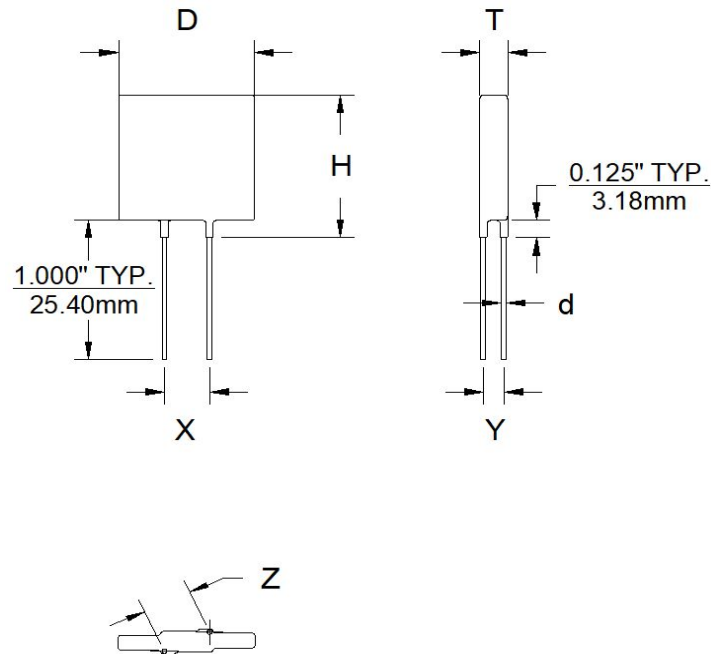


Maida Style Number	Recognitions To Safety Agency Standards						Nominal Size (mm)	Minimum Marking	Maximum Ratings						Electrical Characteristics				
									Applied Voltage		Transient				Varistor Voltage @1 mA DC		Max Clamping Voltage (@Test Current)		Typical Cap.
											Energy		Peak Current						
											10 x 1000 $\mu$ sec	8 x 20 $\mu$ sec	8 x 20 $\mu$ sec # Pulses						
									A	B	C	D	E	F	(AC)	(DC)	(J)	(J)	1
R69ZOV581RA265	X	X					12	R69-581UL	580	735	265	265	6000	4500	821	1002	1500	50	170
R65ZOV581RA530	X	X					17	R65-581UL	580	735	530	530	10000	7000	821	1002	1430	100	390
R6678ZOV581RA560	X	X					22	R66-581UL	580	735	560	560	13000	10000	821	1002	1430	150	720
S6678ZOV581RA720	X	X					25	S66-581UL	580	735	970	970	15000	12000	821	1002	1430	200	990
R69ZOV621RA290	X	X					12	R69-621UL	620	800	290	290	6000	4500	877	1071	1650	50	160
R65ZOV621RA565	X	X					17	R65-621UL	620	800	565	565	10000	7000	877	1071	1540	100	360
R6678ZOV621RA600	X	X					22	R66-621UL	620	800	600	600	13000	10000	877	1071	1540	150	670
S6678ZOV621RA770	X	X					25	S66-621UL	620	800	1030	1030	15000	12000	877	1071	1540	200	920
R69ZOV681RA310	X	X					12	R69-681UL	680	860	310	310	6000	4500	962	1175	1800	50	150
R65ZOV681RA620	X	X					17	R65-681UL	680	860	620	620	10000	7000	962	1175	1700	100	330
R6678ZOV681RA655	X	X					22	R66-681UL	680	860	655	655	13000	10000	962	1175	1700	150	620
S6678ZOV681RA840	X	X					25	S66-681UL	680	860	1100	1100	15000	12000	962	1175	1700	200	840
R69ZOV751RA350	X	X					12	R69-751UL	750	900	350	350	6000	4500	1062	1300	2100	50	130
R65ZOV751RA670	X	X					17	R65-751UL	750	900	670	670	10000	7000	1062	1300	1880	100	300
R6678ZOV751RA700	X	X					22	R66-751UL	750	900	700	700	13000	10000	1062	1300	1880	150	550
S6678ZOV751RA900	X	X					25	S66-751UL	750	900	1250	1250	15000	12000	1062	1300	1880	200	750
R69ZOV102RA510	X	X					12	R69-102UL	1000	1200	510	510	6000	4500	1414	1728	2700	50	100
R65ZOV102RA860	X	X					17	R65-102UL	1000	1200	860	860	10000	7000	1414	1728	2500	100	230
R6678ZOV102RA875	X	X					22	R66-102UL	1000	1200	875	875	13000	10000	1414	1728	2500	150	420
S6678ZOV102RA1100	X	X					25	S66-102UL	1000	1200	1500	1500	15000	12000	1414	1728	2500	200	570

A = UL1449      D = VDE  
 B = cUL        E = DEMKO  
 C = CSA        F =

# LOW PROFILE SERIES

## MECHANICAL SPECIFICATIONS



### Square

Dimension	12mm	17mm	22mm	25mm
<b>MAX. D</b>	0.566"	0.763"	0.925"	1.142"
<b>MAX. T</b>	0.248" - 0.514"	0.248" - 0.514"	0.248" - 0.514"	0.248" - 0.514"
<b>MAX. H</b>	0.691"	0.888"	1.050"	1.267"
<b>TYP. X</b>	0.300"	0.300"	0.394"	0.394"
<b>TYP. d</b>	0.032"	0.032"	0.032"	0.032"

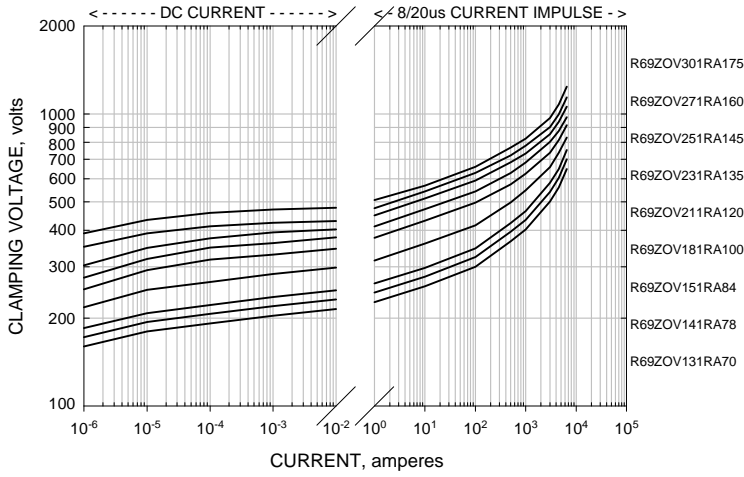
### NOTES:

1. Alternate dimensional specifications, including lead styles, for any part listed may be available upon request.
2. Specifications are subject to change. Contact Maida for specific datasheet for exact dimensions.

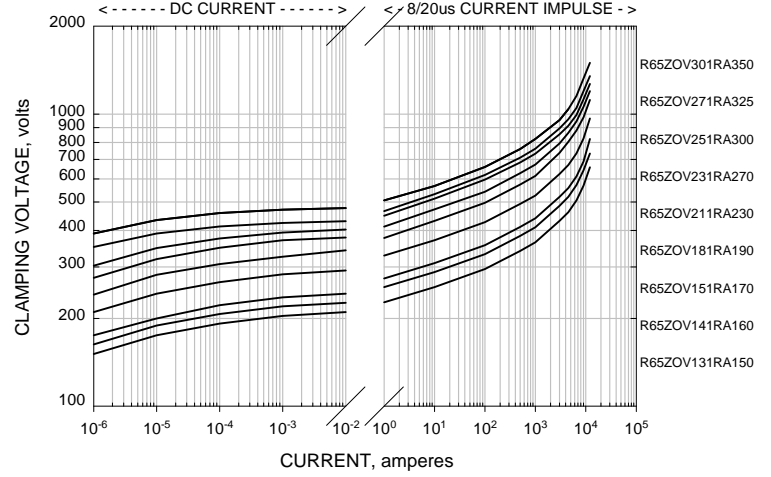


# LOW PROFILE SERIES - TYPICAL VOLTAGE-CURRENT CURVES

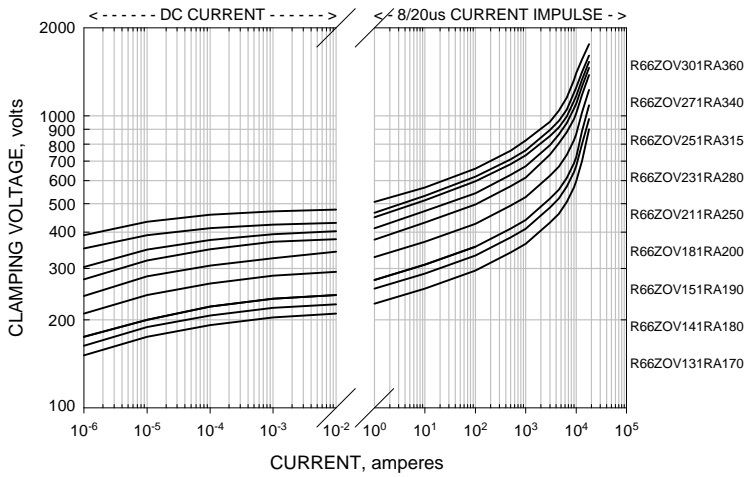
### R69 (12mm SQUARE) SERIES



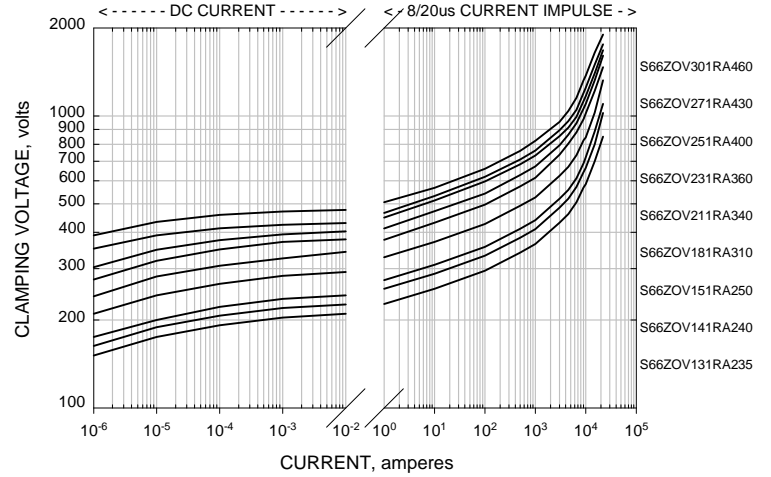
### R65 (17mm SQUARE) SERIES



### R66 (22mm SQUARE) SERIES



### S66 (25mm SQUARE) SERIES



NOTE: For a more detailed V-I curve or for a voltage not listed on the graphs provided, please contact us.



### LEAD CODES

The Maida Development Company prides itself on its ability to manufacture wire leaded devices to meet almost every request of its customers. The following table depicts common varieties of leads that are presently supplied. It should be noted that the dimensions (such as the X, Y, Z, height, lead length, epoxy "pant leg", wire diameter, etc.) can be modified on any the items shown to meet almost any request. Maida is also capable of supplying the various lead forms in either right-hand or left-hand configurations.

For any inquiries regarding specific lead forms please contact us.

NOTE: The images shown depict a round varistor only. However, any lead configuration can be obtained on either round or square varistors.

### TAPE & REEL

The Maida Development Company MOV's are available in Bulk, Tape & Reel, or Ammo Pack packaging formats. All Tape & Reel and Ammo Pack part numbers are designated by suffixing the Maida style number with a T followed by a 1-2 digit alphanumeric code. The codes are generally given to indicate whether the packaging is either Ammo Pack or Tape & Reel, the typical lead spacing of the varistor, the lead style, the wire gauge (or wire diameter), and the taping pitch.

Generally, through-hole varistors with a lead spacing of 0.394", or less, and a nominal disc diameter of 20mm, or less, can be taped. Larger diameters and/or lead spacing's may be offered taped; however customers should contact us for confirmation.

All SMD Series, SMV Series, Encapsulated MOV Series, and MLV Series are provided Tape & Reel. For bulk packaging please contact us.

Maida's taping specifications comply with the requirements of the EIA taping standard. Configurations are available to meet almost any request.

Detailed drawings for all taping codes are available upon request.

# COMMON LEAD CODES

