

**Specifications**

**Maximum Ratings**

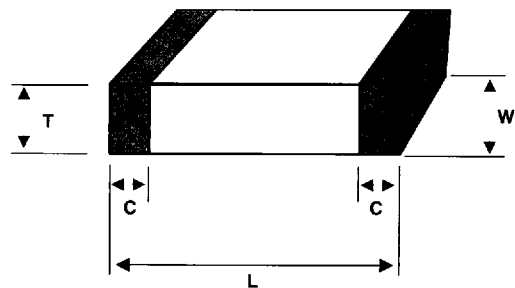
**Electrical Characteristics**

Part Number	Working Voltage		Rated Single Pulse Transient		Varistor Voltage @ 1mA DC		Maximum Clamping Voltage	Typical Capacitance
	AC RMS Volts	DC Volts	Energy 10/1000µs Joules	Peak 8/20µs Amps	Min Volts	Max Volts	8/20µs 5A Volts	@ 1MHZ PicoFarads
VA-A2012-3R5□□	2.5	3.5	0.3	120	3.7	5.5	14	3400
VA-A2012-5R5□□	4.0	5.5	0.3	120	7.1	9.3	16	2700
VA-A2012-080□□	5.7	8.0	0.3	120	9.6	12.5	24	1700
VA-A2012-110□□	7.8	11.0	0.3	120	12.7	15.5	27	1500
VA-A2012-140□□	10.0	14.0	0.3	120	15.9	20.3	30	1300
VA-A2012-180□□	12.7	18.0	0.3	100	22.5	28.0	40	1100
VA-A2012-260□□	18.4	26.0	0.3	100	29.5	38.5	58	700
<b>Low Capacitance Series</b>								
VA-A2012-3R5J□□	2.5	3.5	0.1	40	3.7	5.5	14	1600
VA-A2012-5R5J□□	4.0	5.5	0.1	40	7.1	9.3	16	1450
VA-A2012-080J□□	5.7	8.0	0.1	40	9.6	12.5	24	850
VA-A2012-110J□□	7.8	11.0	0.1	40	12.7	15.5	27	710
VA-A2012-140J□□	10.0	14.0	0.1	40	15.9	20.3	30	650
VA-A2012-180J□□	12.7	18.0	0.1	30	22.5	28.0	40	530
VA-A2012-260J□□	18.4	26.0	0.1	30	29.5	38.5	58	400
<b>Very Low Capacitance Series</b>								
VL-A2012-180J□□	12.7	18.0	0.1	20	22.5	28.0	50	<100

0805 Series is the U. S. equivalent for the 2012 millimeter series.

**Dimensions**

- L = 2.0 ± 0.2 mm  
0.079 ± 0.008 inches
- W = 1.25 ± 0.2 mm  
0.049 ± 0.008 inches
- T = 1.0 ± 0.2 mm  
0.039 ± 0.008 inches
- C = 0.6 mm max  
0.024 inches max



9914368 0000709 T2T

# PACKAGING SPECIFICATIONS

## Standard Quantities

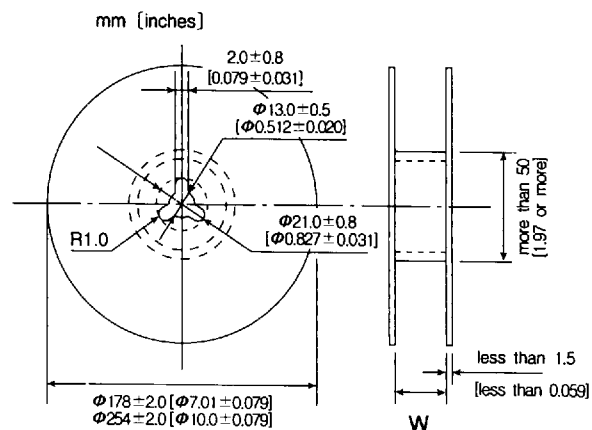
The quantity per reel or per bulk package is indicated below. Orders for all Multilayer Varistors are processed and shipped in full reel/bulk increments, or multiples of.

<u>3,000 Taped and Reeled:</u>	0805 Series, 1206 Series	<u>4,000 Taped and Reeled:</u>	0603 Series
<u>7,000 Taped and Reeled:</u>	0805 Series, 1206 Series	<u>8,000 Taped and Reeled:</u>	0603 Series

The packaging specifications indicated are standard for the majority of configurations. Please consult World Products for specific details.

## Reel Dimensions

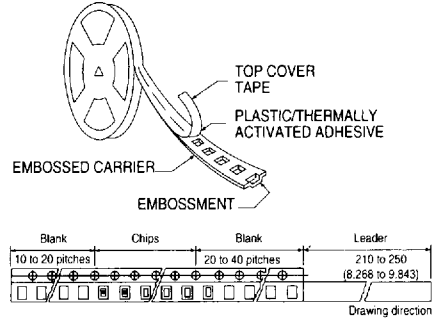
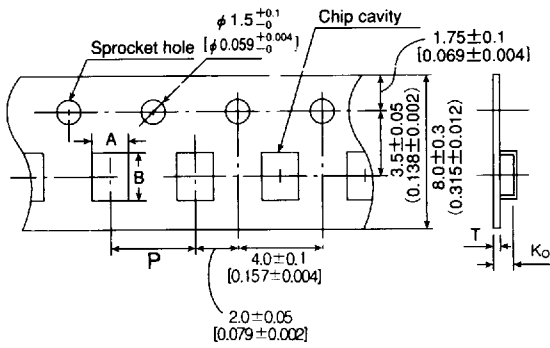
W =  $9.0 \pm 0.3$  mm  
 $0.354 \pm 0.012$  inches



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## Taping Dimension

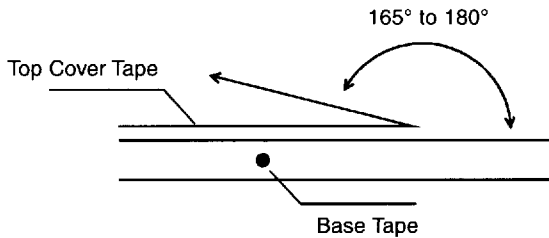
mm [inches]



The pitch holes shift within  $\pm 0.3\text{mm}$  [.012inches] for cumulative 10 pitches.

	<b>0603 Series</b>		<b>0805 Series</b>		<b>1206 Series</b>	
	mm	inches	mm	inches	mm	inches
A $\pm 0.1\text{mm}$ (0.004 inches)	1.00	0.040	1.45	0.057	1.90	0.075
B $\pm 0.1\text{ mm}$ (0.004 inches)	1.80	0.070	2.25	0.088	3.60	0.142
P $\pm 0.1\text{ mm}$ (0.004 inches)	2.0	0.080	4.0	0.157	4.0	0.157
$K_o \pm 0.1\text{ mm}$ (0.004 inches)	0.95	0.037	1.00	0.040	1.35	0.053
T maximum	0.3	0.012	0.3	0.012	0.3	0.012

## Top Tape Dimension



The force for tearing of top tape is 20 to 70 grams in the arrow direction.

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