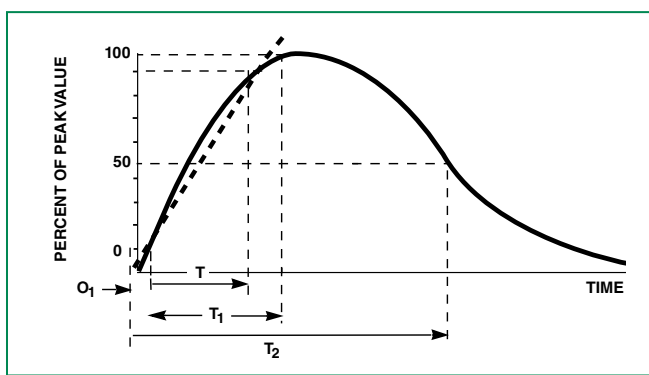


Reliability and Environmental Specifications

	Judge Criteria	Test Condition
Solderability	> 95% solder coverage	245 +/- °C, 3 +/- 1 sec.
Leaching Resistance	> 95% solder coverage	245 +/- °C, 3 +/- 1 sec.
High Temperature Exposure	$\Delta V_v / V_v \leq 10\%$	1000 hours 85°C, un-powered
Thermal Shock	$\Delta V_v / V_v \leq 10\%$	-45 to +85 °C, 30 min. cycle, 5 cycles
Operating Life	$\Delta V_v / V_v \leq 10\%$	85 °C, DC working voltage 1000 hours
Bias Humidity	$\Delta V_v / V_v \leq 10\%$	40 °C / 85% RH, DC working voltage 1000 hours

Peak Pulse Current Test Waveform for Clamping Voltage



O_1 = Virtual Origin of Wave

T = Time from 10% to 90% of Peak

T_1 = Rise Time = $1.25 \times T$

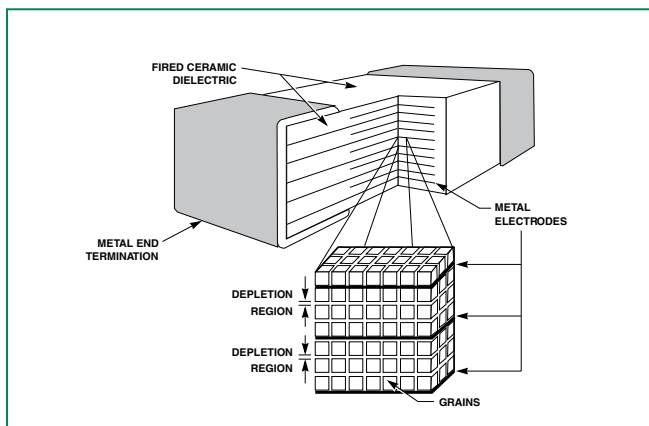
T_2 = Decay Time

Example - For an 8/20 μ s Current Waveform:

$8\mu s = T_1$ = Rise Time

$20\mu s = T_2$ = Decay Time

Multilayer Internal Construction

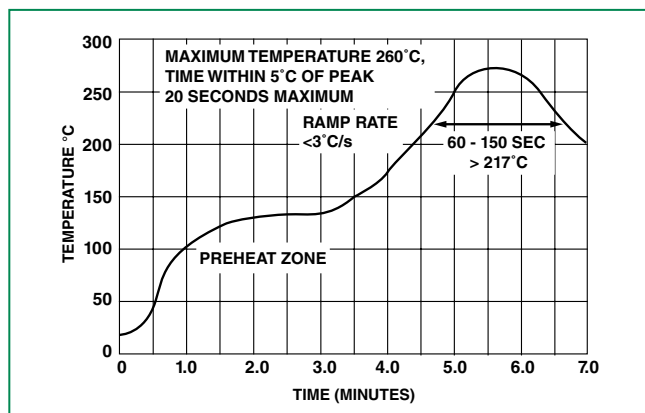


Lead-free (Pb-free) Soldering Recommendations

To avoid the possibility of generating stresses due to thermal shock, a preheat stage in the soldering process is recommended, and the peak temperature of the solder process should be rigidly controlled.

When using a reflow process, care should be taken to ensure that the ML chip is not subjected to a thermal gradient steeper than 4 degrees per second; the ideal gradient being 2 degrees per second. During the soldering process, preheating to within 100 degrees of the solder's peak temperature is essential to minimize thermal shock.

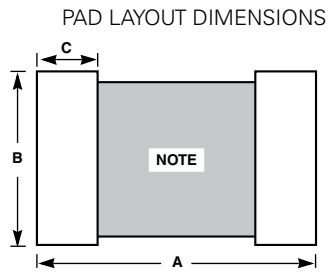
Once the soldering process has been completed, it is still necessary to ensure that any further thermal shocks are avoided. One possible cause of thermal shock is hot printed circuit boards being removed from the solder process and subjected to cleaning solvents at room temperature. The boards must be allowed to cool gradually to less than 50° C before cleaning.



Disclaimer Notice - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications.

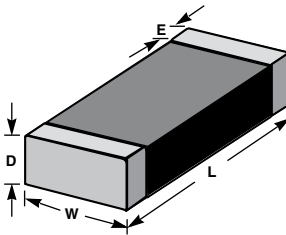
Read complete Disclaimer Notice at www.littelfuse.com/disclaimer-electronics.

Product Dimensions (mm)



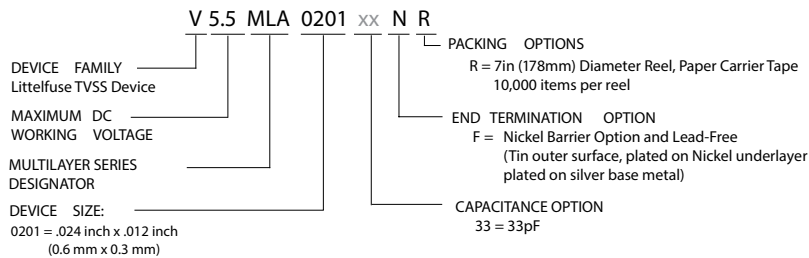
NOTE : Avoid metal runs in this area, parts not recommended for use in applications using Silver (Ag) epoxy paste.

CHIP LAYOUT DIMENSIONS

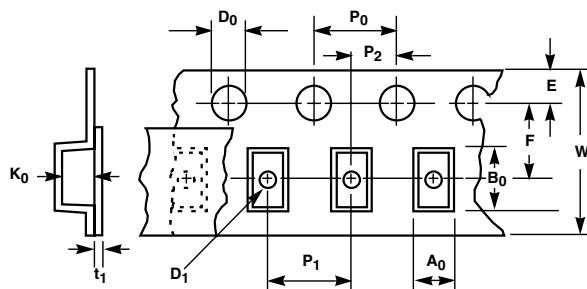


Dimension	0201 Size	
	IN	MM
A	0.055	1.40
B	0.020	0.50
C	0.020	0.50
D (max.)	0.014	0.35
E	0.008 \pm 0.004	0.20 \pm 0.10
L	0.024 \pm 0.002	0.60 \pm 0.05
W	0.012 \pm 0.002	0.30 \pm 0.05

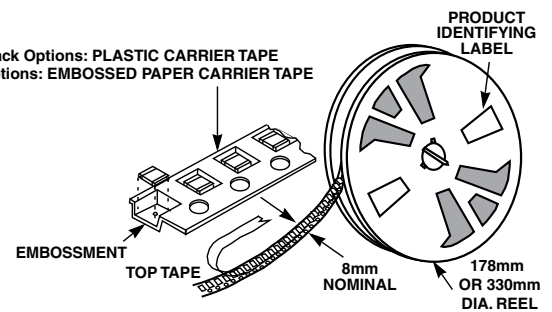
Part Numbering System



Tape and Reel Specifications



For T and H Pack Options: PLASTIC CARRIER TAPE
For R Pack Options: EMBOSSED PAPER CARRIER TAPE



Symbol	Description	Dimensions in Millimeters
		0201
A₀	Width of Cavity	0.36 \pm 0.02
B₀	Length of Cavity	0.70 \pm 0.02
W	Width of Tape	8.0 \pm 0.1
F	Distance Between Drive Hole Centers and Cavity Centers	3.5 \pm 0.05
E	Distance Between Drive Hole Centers and Tape Edge	1.75 \pm 0.05
P₁	Distance Between Cavity Centers	2.0 \pm 0.05
P₂	Axial Drive Distance Between Drive Hole Centers & Cavity Centers	2.0 \pm 0.05
P₀	Axial Drive Distance Between Drive Hole Centers	4.0 \pm 0.1
D₀	Drive Hole Diameter	1.55 \pm 0.05
T₁	Top Tape Thickness	0.42 \pm 0.02

NOTE: It is recommended that parts be kept in the sealed bag provided and that parts be used as soon as possible when removed from bags.