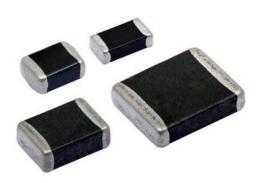


Vishay BCcomponents

SMD 1210 Multilayer Varistor



QUICK REFERENCE DATA				
PARAMETER	VALUE	UNIT		
Maximum continuous voltage				
DC	5.6 to 45.0	V		
AC	4.0 to 35.0	V		
Maximum clamping voltage at 2.5 A	22.0 to 95.0	V		
Capacitance range (at 1 kHz)	650 to 5000	pF		
Maximum energy (10/1000 μs)	0.4 to 2.2	J		
Maximum peak current (8/20 µs)	250 to 400	Α		
Operating temperature range	-55 to 85	°C		
Weight	± 0.030	g		

FEATURES

- · Surface mount multilayer surge suppressor
- · Inherent bidirectional clamping
- Excellent energy/volume ratio
- · Suitable for reflow soldering
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>





COMPLIANT HALOGEN FREE

APPLICATIONS

Over-voltage and transient voltage protection:

- Data lines and I/O port protection
- · Protection against ESD transients
- · On-board protection of IC's and transistors
- Modem protection
- LCD protection

DESCRIPTION

Size 1210 (M3225) multilayer chip varistor with NiSn terminations.

PACKAGING

Available in 8 mm embossed carrier tape, component pitch 4 mm on 180 mm reels containing 2000 pieces.

ELECTRIC	ELECTRICAL DATA AND ORDERING INFORMATION						
WORKING	VOLTAGE	BREAKDOWN VOLTAGE	CLAMPING VOLTAGE	MAX. PEAK CURRENT	MAXIMUM ENERGY	CAPACITANCE	PART NUMBER
V _{RMS}	V _{DC}	V _b	V _C	I _p	Et	С	SAP
V	V	V	V	Α	J	pF	MLV1210E3
	< 50 μA	1 mA	2.5 A, 8/20 μs	8/20 µs	10/1000 µs	1 kHz	
4.0	5.6	7.0 to 10.0	22.0	250	0.4	5000	0403T
14.0	18.0	21.6 to 26.0	48.0	400	1.5	2000	1403T
20.0	26.0	31.0 to 38.0	62.0	400	1.9	1500	2003T
25.0	30.0	37.0 to 46.0	77.0	400	1.9	1200	2503T
35.0	45.0	50.4 to 61.6	95.0	250	2.2	950	3503T

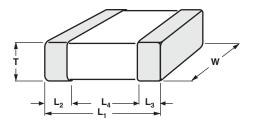
Notes

- Sinusoidal voltage assumed as normal operating condition.
 If a non-sinusoidal voltage is present, the crest voltage x 0.707 should be used for type selection.
- Breakdown voltage at a current of 1 mA, measured according to 4.5 of IEC 61051-1.
- · Parts are not recommended for automotive applications.



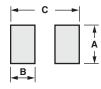
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DIIMENSIONS in millimeters



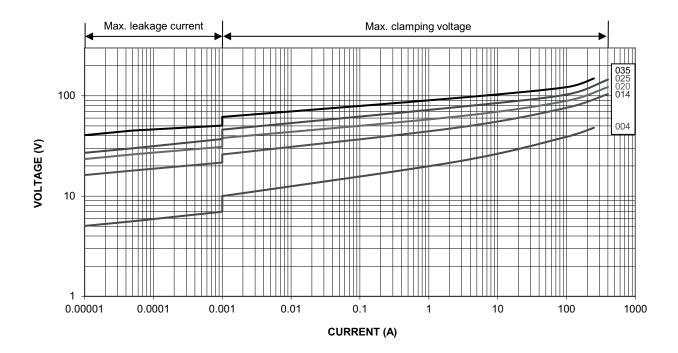
L ₁	W	Т	L ₂ and L ₃
3.2 ± 0.2	2.5 ± 0.25	1.8 max.	0.71 max.

RECOMMENDED FOOTPRINT in millimeters



Α	В	С
2.7	1.2	3.9

V/I CHARACTERISTICS





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