## SMD 0805 Multilayer Varistor

## FEATURES



- Surface mount multilayer surge suppressor
- Inherent bidirectional clamping
- Excellent energy/volume ratio
- Suitable for reflow soldering
- Compliant to RoHS directive 2002/95/EC and in accordance to WEEE 2002/96/EC


## 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 0805 (2012M) multilayer chip varistor with NiSn terminations.

## PACKAGING

Available in 8 mm paper tape and reel.

## ELECTRICAL DATA AND ORDERING INFORMATION

| WORKING VOLTAGE |  | BREAKDOWN <br> VOLTAGE <br> $(1 \mathbf{m A})$ | MAXIMUM <br> CLAMPING <br> VOLTAGE <br> $(\mathbf{1 ~ A )}$ | PEAK <br> CURRENT <br> $(8 / 20 \boldsymbol{\mu s})$ | CAPACITANCE <br> (1 MHz) <br> typical | PART NUMBER |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

## Notes

- Sinusoidal voltage assumed as normal operating condition.

If a non-sinusoidal voltage is present, the crest voltage $\times 0.707$ should be used for type selection.

- Voltage at a current of 1 mA , measured according to 4.3 of CECC 42000
- Parts are not recommended for automotive applications

DIMENSIONS in millimeters


| $\mathbf{L}_{\mathbf{1}}$ | $\mathbf{W}$ | $\mathbf{T}$ | $\mathbf{L}_{\mathbf{2}}$ and $\mathbf{L}_{\mathbf{3}}$ |
| :---: | :---: | :---: | :---: |
| $2.0 \pm 0.2$ | $1.25 \pm 0.2$ | 1.0 max. | $0.4 \pm 0.3$ |

RECOMMENDED FOOTPRINT in millimeters


| $\mathbf{A}$ | $\mathbf{B}$ | $\mathbf{C}$ |
| :---: | :---: | :---: |
| 1.4 | 1.2 | 3.4 |

## V/I CHARACTERISTICS



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