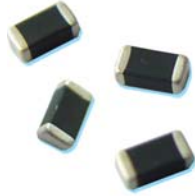
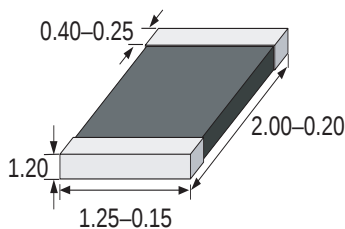


**TVS 0805 SMD**

This product is not recommended for new designs. Please refer to Littelfuse series MLA.

**Dimensions (mm)**

## Multilayer Ceramic Transient Voltage Suppressor

### Low Capacity

**Features**

Thin layer, high precise techniques  
Lead free  
Bi-directional clamping  
Standard and low capacity  
Available with Nickel/tin end termination

**Applications**

Circuit board and ESD, EFT

Protection of:

- I/O ports
- Keyboards
- LCD's
- Sensors

**WebLinks**

Further info see:

[www.wickmanngroup.com](http://www.wickmanngroup.com)

Further technical info see technical varistor file:

[www.wickmanngroup.com/download/techvaristor.pdf](http://www.wickmanngroup.com/download/techvaristor.pdf)

**Specifications****Packaging**

Tape and Reel  
T 7 inch reel (3.000 pcs.)

**Material**

Body: Ceramic (ZnO)  
Terminals: Ni/Sn plated (code "P")  
Ag/Pt/Pd non plated (code "N" on request)

**Operating Temperature**

-55 to +125°C

**Solderability**

acc. to IEC 60068-2-58  
235°C, 2s

**Soldering Heat Resistance**

260°C, 10 sec. (IEC 60068-2-58)  
280°C, 5 sec. (IEC 60068-2-58)

**Response Time**

<0.5ns

Temperature coefficient ( $\alpha V$ ) of clamping voltage ( $V_c$ ) @ specified test current

<0.01%/°C

**Power dissipation**

0.1W max.

**Standards**

IEC 61000-4-2  
MIL-STD-883C

| Maximum Ratings (125°C) |                            |                 |                                                  |                                                    |                                                       | Specifications (25°C)                    |                     |                         |                         |                 |
|-------------------------|----------------------------|-----------------|--------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|------------------------------------------|---------------------|-------------------------|-------------------------|-----------------|
| Type                    | max. cont. working voltage |                 | max. non-repetitive surge current (8/20 $\mu$ s) | max. non-repetitive surge energy (10/1000 $\mu$ s) | max. clamping voltage at spec. current (8/20 $\mu$ s) | nominal voltage at 1mA (DC) test current |                     | typ. capacitance        |                         | typ. inductance |
|                         | $V_{M(DC)}$ (V)            | $V_{M(AC)}$ (V) |                                                  |                                                    |                                                       | $V_{N(DC)min.}$ (V)                      | $V_{N(DC)max.}$ (V) | 1KHz<br>$C_{typ.}$ (pF) | 1MHz<br>$C_{typ.}$ (pF) |                 |
| WT0805ML030L            | 3,3                        | 2,5             | 40                                               | 0,10                                               | 10,0 @ 2                                              | 3,8                                      | 7,0                 | 2.080                   | 1.900                   | 1,5             |
| WT0805ML050L            | 5,5                        | 4,0             | 40                                               | 0,10                                               | 15,5 @ 2                                              | 7,1                                      | 9,8                 | 790                     | 720                     | 1,5             |
| WT0805ML090L            | 9,0                        | 6,0             | 40                                               | 0,10                                               | 20,0 @ 2                                              | 10,0                                     | 14,5                | 650                     | 550                     | 1,5             |
| WT0805ML120L            | 12,0                       | 9,0             | 40                                               | 0,10                                               | 25,0 @ 2                                              | 14,0                                     | 18,5                | 560                     | 480                     | 1,5             |
| WT0805ML140L            | 14,0                       | 11,0            | 40                                               | 0,10                                               | 30,0 @ 2                                              | 16,0                                     | 21,0                | 445                     | 380                     | 1,5             |
| WT0805ML180L            | 18,0                       | 14,0            | 40                                               | 0,10                                               | 40,0 @ 2                                              | 22,0                                     | 28,0                | 330                     | 290                     | 1,5             |
| WT0805ML220L            | 22,0                       | 17,0            | 40                                               | 0,10                                               | 44,0 @ 2                                              | 24,3                                     | 30,0                | 320                     | 280                     | 1,5             |
| WT0805ML260L            | 26,0                       | 20,0            | 40                                               | 0,10                                               | 58,0 @ 2                                              | 29,5                                     | 38,0                | 330                     | 285                     | 1,5             |
| WT0805ML300L            | 30,0                       | 25,0            | 40                                               | 0,10                                               | 65,0 @ 2                                              | 35,0                                     | 43,0                | 220                     | 190                     | 1,5             |

**Order Information**

| Qty. | Order-Number | Type        | Terminal Code | Packaging |
|------|--------------|-------------|---------------|-----------|
|      |              | WT0805ML140 | L             | P         |
|      |              |             |               | T         |

Specifications are subject to change without notice

**WebSite**

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