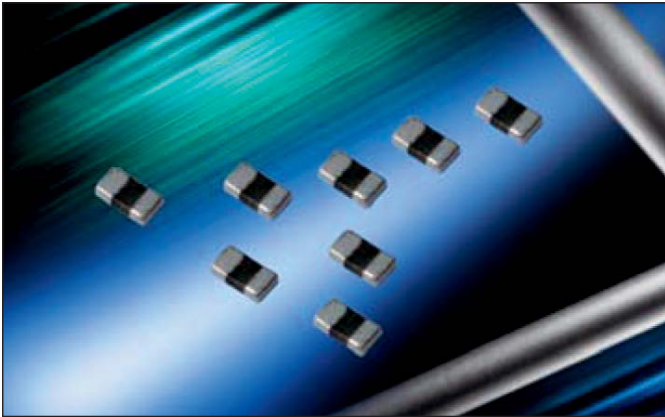




# Miniature 0201 MLV

## AVX Multilayer Ceramic Transient Voltage Suppressors ESD Protection for any Circuit with Board Space Constraints



### GENERAL DESCRIPTION

AVX 0201 Multi-Layer Varistors are designed for circuits where board space is a premium. 0201 MLV offer bi-directional ESD protection in the smallest package available today. The added advantage is EMI/RFI attenuation. 0201 MLV can replace 2 diodes and the EMC capacitor for a one chip solution.

The miniature size and one chip solution team to offer designers the best in ESD protection and EMI filtering in one ultra compact device.

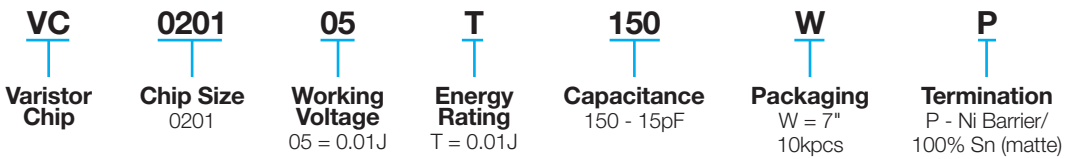
### FEATURES

- High Reliability
- Capacitance 15pf & 33pf
- Bi-Directional protection
- Fastest response time to ESD strikes
- Multi-strike capability
- Ultra compact 0201 case size

### APPLICATIONS

- Cell phone
- PDA
- Camera modules
- Embedded components
- Hearing aid
- Any circuit with space constraints

### HOW TO ORDER



AVX Part Number	V <sub>W</sub> (DC)	V <sub>W</sub> (AC)	V <sub>B</sub>	V <sub>C</sub>	I <sub>VC</sub>	I <sub>L</sub>	E <sub>T</sub>	I <sub>P</sub>	Cap
VC020105T150WP	5.6	4.0	10.0 min 15.6 max	35max	1	5	0.01	1	15pF ±30%
VC020105T330WP	5.6	4.0	10.0 min 15.6 max	35max	1	5	0.01	1	33pF ±30%

- |                     |   |                |   |
|---------------------|---|----------------|---|
| V <sub>W</sub> (DC) | DC Working Voltage [V]                  | I <sub>L</sub> | Maximum leakage current at the working voltage [µA] |
| V <sub>W</sub> (AC) | AC Working Voltage [V]                  | E <sub>T</sub> | Transient Energy Rating [J, 10x1000µS]              |
| V <sub>B</sub>      | Breakdown Voltage [V @ 1mA DC]          | I <sub>P</sub> | Peak Current Rating [A, 8x20µS]                     |
| V <sub>C</sub>      | Clamping Voltage [V @ I <sub>VC</sub> ] | Cap            | Capacitance [pF] @ 1KHz specified and 0.5VRMS       |
| I <sub>VC</sub>     | Test Current for VC [A, 8x20µS]         |                |   |



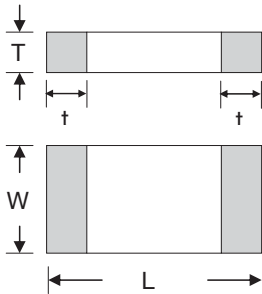
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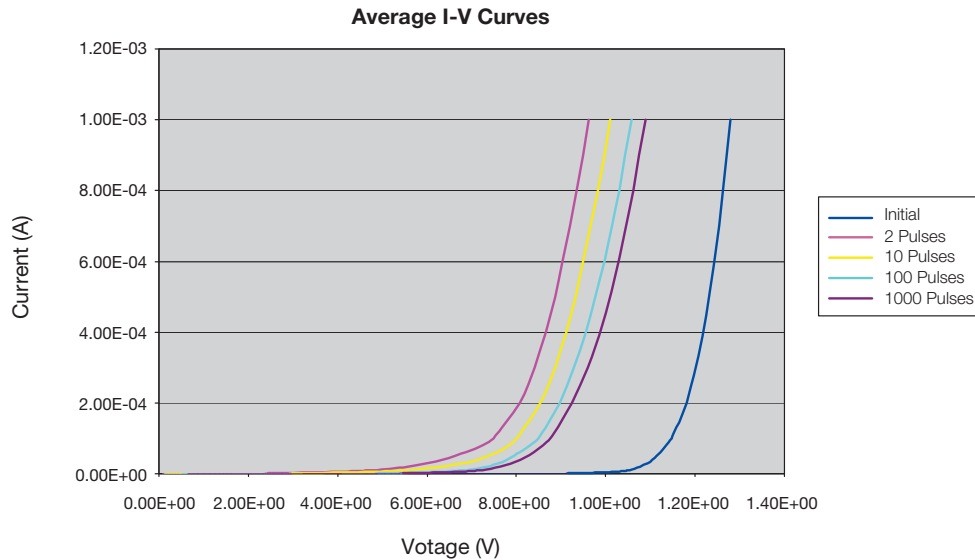


## PHYSICAL DIMENSIONS: mm (inches)



Size (EIA)	Length (L)	Width (W)	Max Thickness (T)	Terminal (t)
0201	0.60±0.03 (0.024±.001)	0.30±0.03 (0.011±0.001)	0.3 max. (0.012 max.)	0.15±0.05 (0.006±0.002)

## VOLTAGE/CURRENT CHARACTERISTICS



## ESD PERFORMANCE

