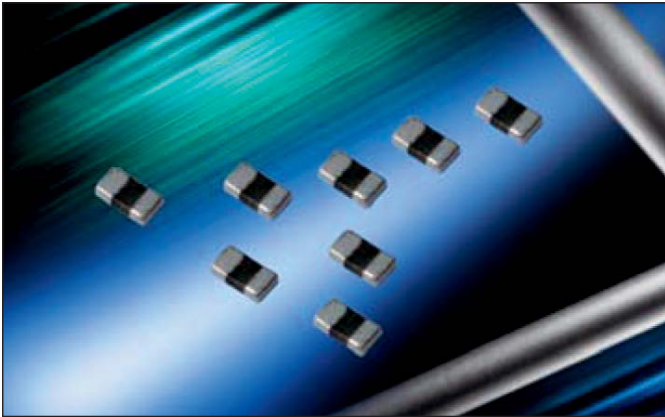




Miniature 0201 MLV

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 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 15, 33, 50 & 100pf
- 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

VC	0201	05	T	150	W	P
Varistor Chip	Chip Size 0201	Working Voltage 05 = 5.6V	Energy Rating T = 0.01J	Capacitance 150 = 15pF	Packaging W = 7" 10kpcs	Termination P = Ni Barrier/ 100% Sn (matte)

AVX Part Number	V _W (DC)	V _W (AC)	V _B	V _C	I _{VC}	I _L	E _T	I _P	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%
VC020105T500WP	5.6	4.0	10.0 min 15.6 max	35max	1	50	0.01	5	50pF ±30%
VC020105T101WP	5.6	4.0	10.0 min 15.6 max	35max	1	50	0.01	5	100pF 30%

- | | | | |
|---------------------|---|----------------|---|
| V _W (DC) | DC Working Voltage [V] | I _L | Maximum leakage current at the working voltage [µA] |
| V _W (AC) | AC Working Voltage [V] | E _T | Transient Energy Rating [J, 10x1000µS] |
| V _B | Breakdown Voltage [V @ 1mADC] | I _P | Peak Current Rating [A, 8x20µS] |
| V _C | Clamping Voltage [V @ I _{VC}] | Cap | Capacitance [pF] @ 1KHz specified and 0.5VRMS |
| I _{VC} | Test Current for VC [A, 8x20µS] | | |



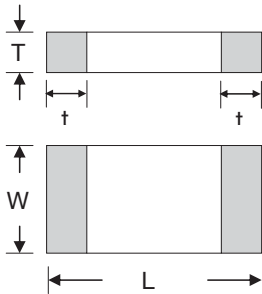
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AVX Multilayer Ceramic Transient Voltage Suppressors

ESD Protection for any Circuit with Board Space Constraints

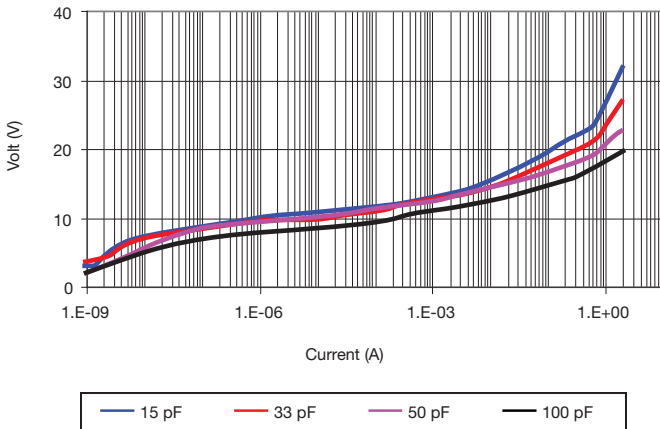


PHYSICAL DIMENSIONS: mm (inches)

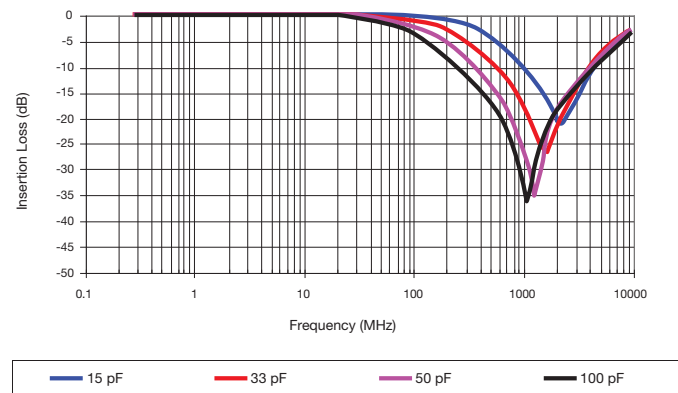


Size (EIA)	Length (L)	Width (W)	Max Thickness (T)	Terminal (t)
0201	0.60±0.03 (0.024±.001)	0.30±0.03 (0.011±0.001)	0.33 max. (0.013 max.)	0.15±0.05 (0.006±0.002)

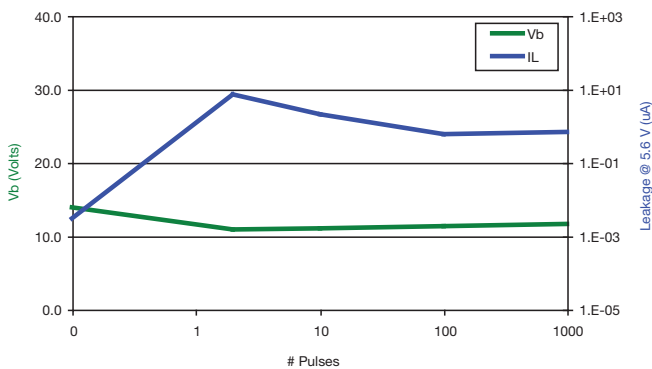
VOLTAGE/CURRENT CHARACTERISTICS



TRANSMISSION CHARACTERISTICS



TYPICAL 8 KV ESD PERFORMANCE



IMPEDANCE VS. FREQUENCY CHARACTERISTICS

