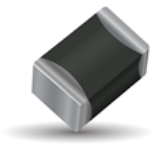
VC020103V121WP

(0201, 3.5Vdc, 0.02J, 10A, 125pF, Ni/Sn Term)

Miniature 0201 Multilayer Varistors

for Industrial and General applications

To view data online visit:
SpiCAT



AVX 0201 MLV offer bi-directional ESD protection in the smallest package available. 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.

Electrical Characteristics

Operating Temperature	-55 to +125°C

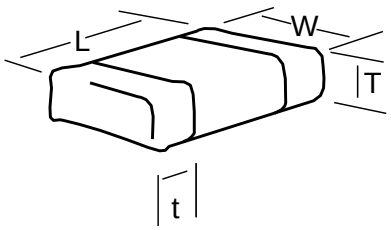
Case Size	V_W (DC)	V_W (AC)	V_B	V_C	I_{VC}	I_L	E_T	PP	I_P	Cap	Cap Tol
EIA	Vdc	Vac	V	V	A	µA	J	W	A	pF	-
0201	3.5	2	4.76-8.84	14	1	50	0.02	15	10	125	±40%

V_W(DC)	DC Working Voltage [V]	E_t	Transient Energy Rating [J, 10x1000µS]
V_W(AC)	AC Working Voltage [V]	PP	Peak Power Rating [W, 10x1000µS]
V_B	Typical Breakdown Votage [V @ 1mA_{DC}]	I_P	Peak Current Rating [A, 8x20µS]
V_C	Clamping Voltage [V @ I_{VC}]	Cap	Typical capacitance [pF] @1kHz and 0.5VRMS
I_{VC}	Test Current for V_C [A, 8x20µs]	Cap tol	Capacitance tolerance from typical value
I_L	Maximum leakage current at the working voltage [µA]		

Dimensions

mm (inches)

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



Termination

Ni barrier/100% Sn plated termination for lead free soldering.

RoHS COMPLIANT

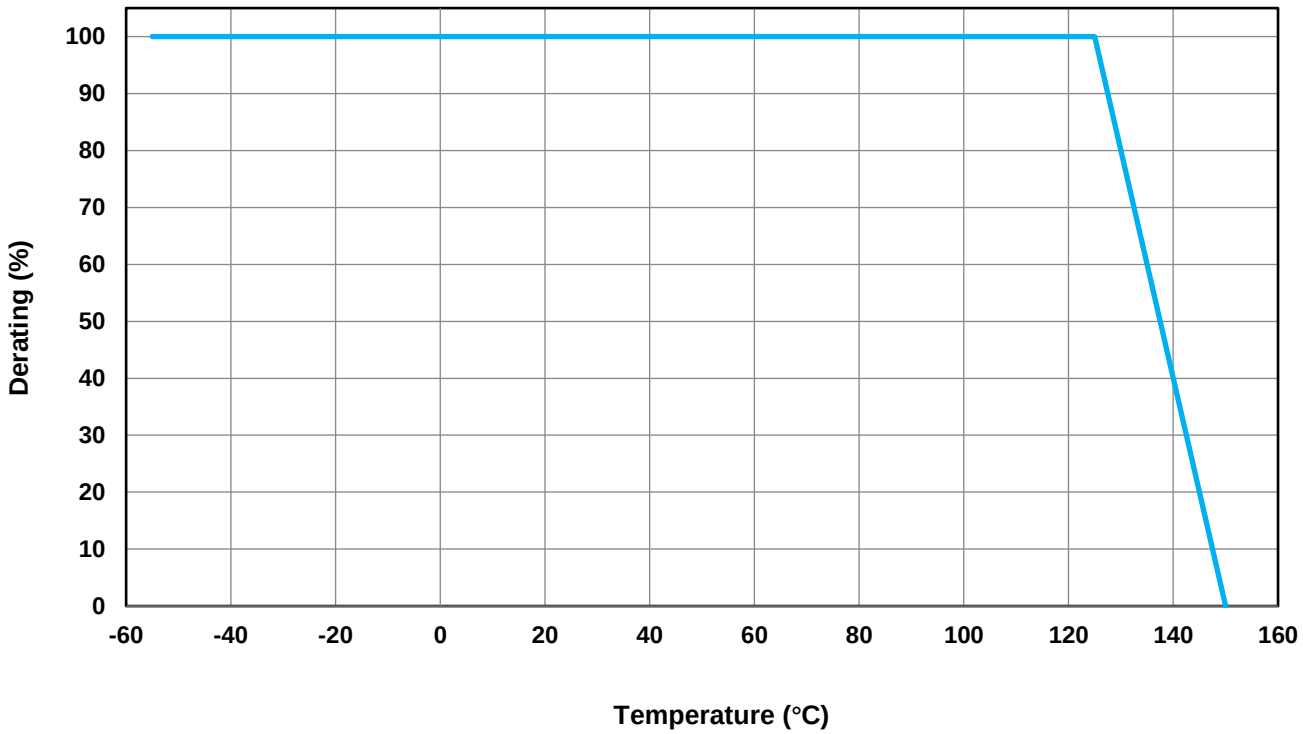
MSL 1

Pb Free 260°C

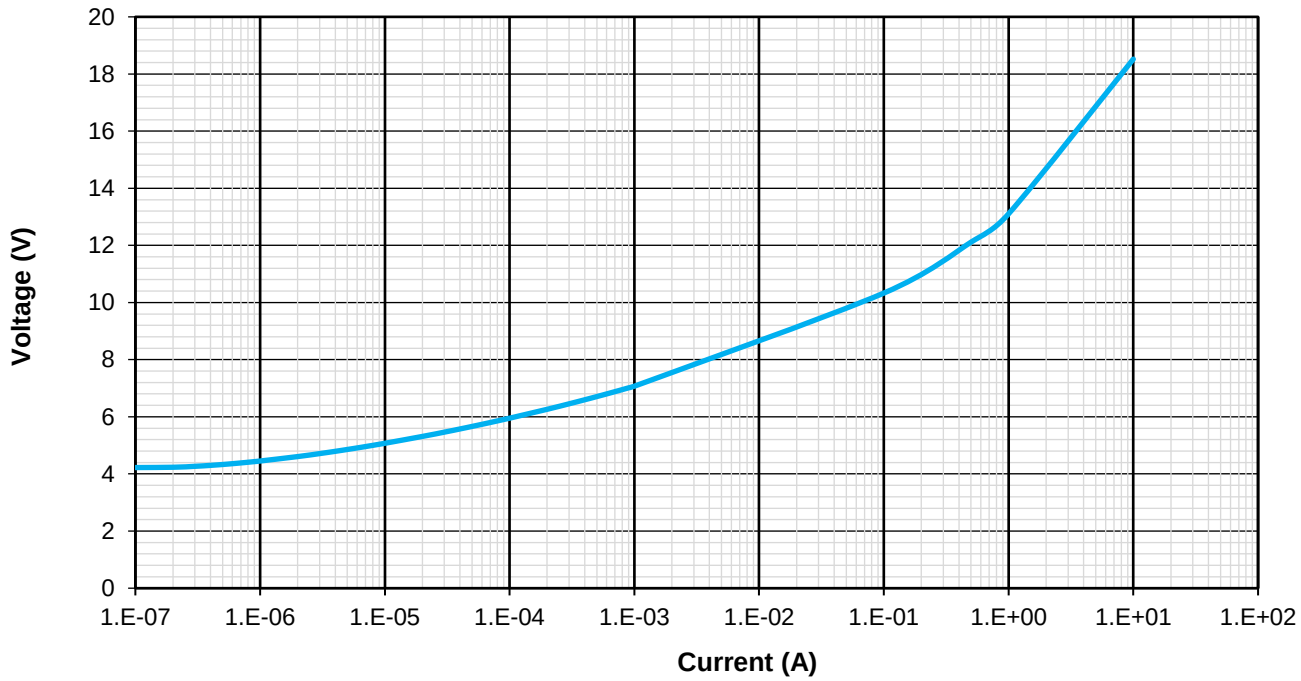
How to order (Packaging options)

VC	0201	03	V	121	W	P
Varistor Chip	Case Size	Working Voltage	Energy Rating	Capacitance	Packaging	Termination
		03 = 3.5Vdc	V = 0.02J	121=125pF	W = 7“ reel (10,000pcs)	P = Ni/Sn

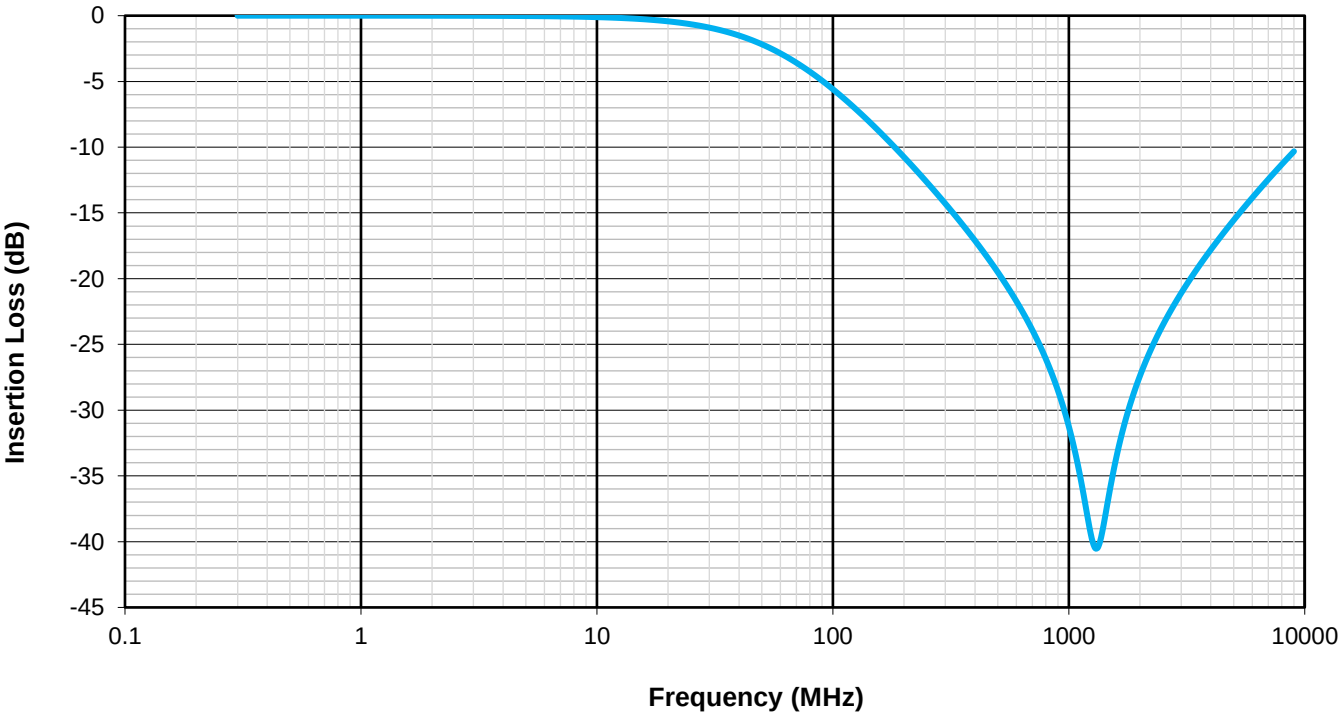
Temperature Derating (Transient Energy, Peak Current, Power)



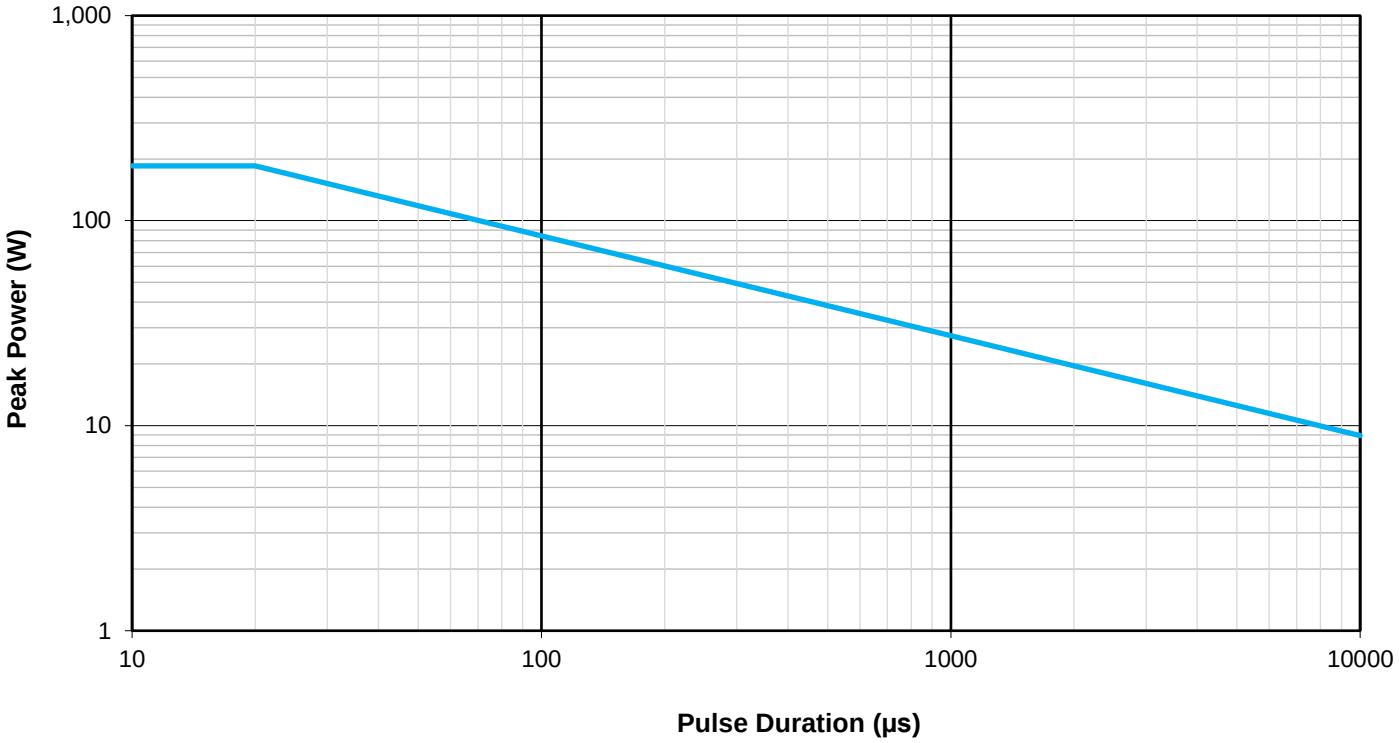
Voltage / Current Characteristics



S21 Characteristics



Power Derating



NOTICE: Specifications are subject to change without notice. All statements, information and data given herein are beleived to be accurate and reliable, but are presented without guarantee or responsibility of any kind, expressed or implied. Specifications are typical and may not apply to all applications.