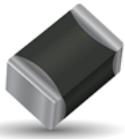


Miniature 0201 Automotive Multilayer Varistors

for Automotive applications

To view data online visit:

SpICAT



**AEC-Q200
Qualified**

AVX 0201 Automotive 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	9	6.4	16.5±10%	32	1	10	0.02	15	5	30	±40%

V_W(DC) DC Working Voltage [V]

V_W(AC) AC Working Voltage [V]

V_B Typical Breakdown Voltage [V @ 1mA_{DC}]

V_C Clamping Voltage [V @ I_{VC}]

I_{VC} Test Current for V_C [A, 8x20μs]

I_L Maximum leakage current at the working voltage [μA]

E_t Transient Energy Rating [J, 10x1000μs]

PP Peak Power Rating [W, 10x1000μs]

I_P Peak Current Rating [A, 8x20μs]

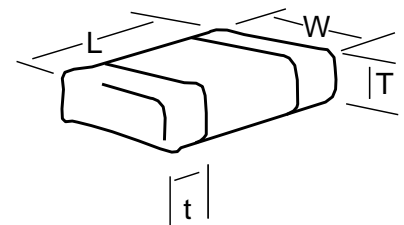
Cap Typical capacitance [pF] @ 1MHz and 0.5VRMS

Cap tol Capacitance tolerance from typical value

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**

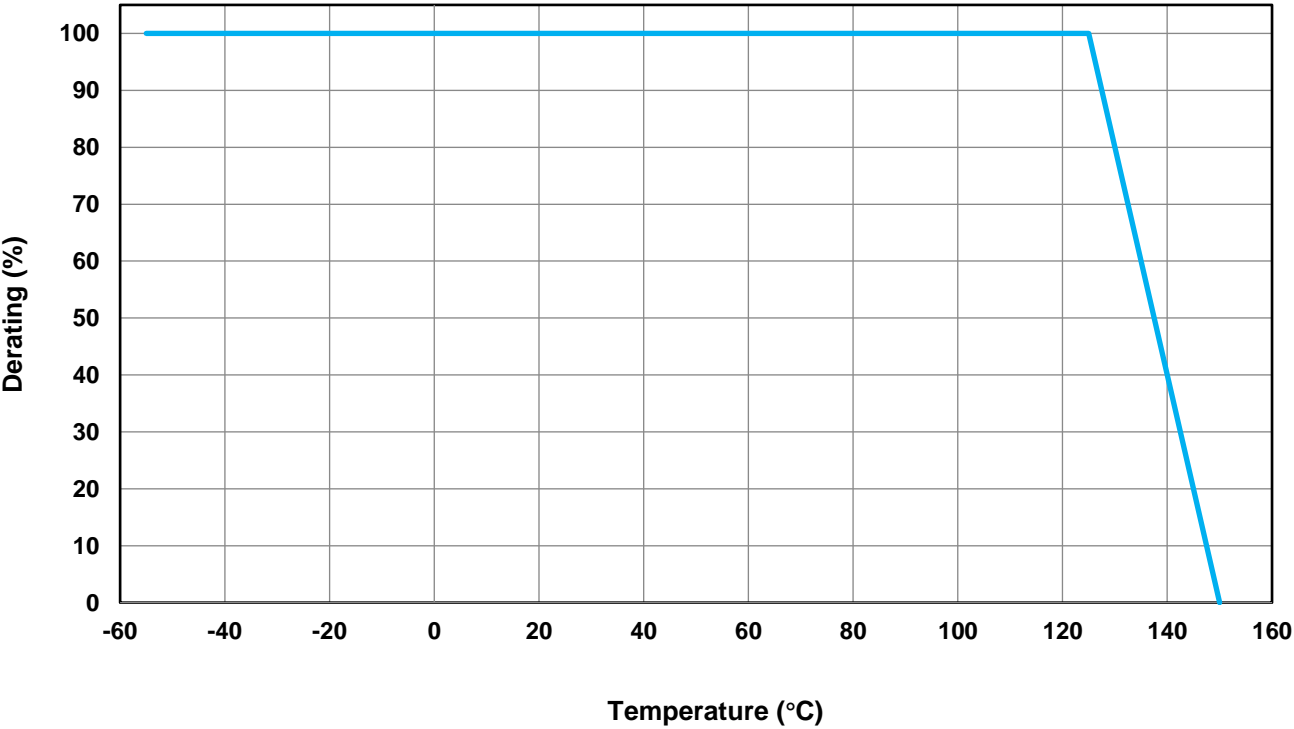
MSL 1

Pb Free 260°C

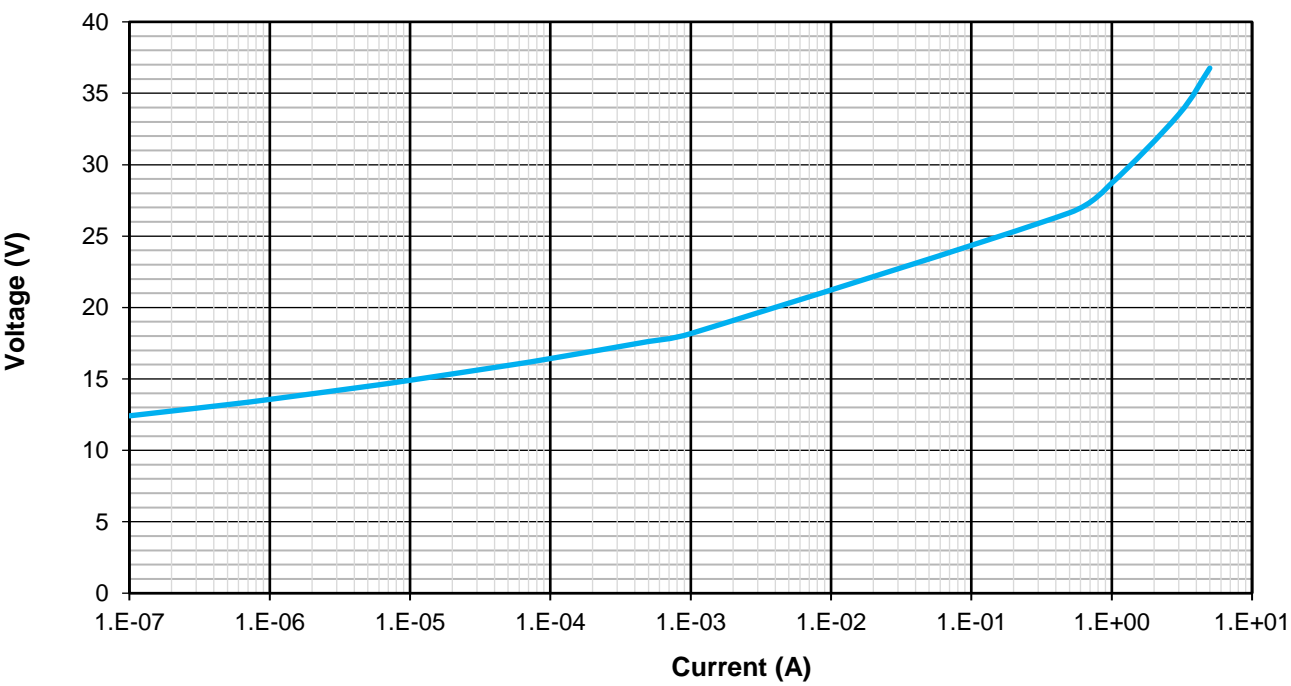
How to order (Packaging options)

VCAS	0201	09	V	300	W	P
Varistor Chip Automotive Series	Case Size	Working Voltage	Energy Rating	Capacitance	Packaging	Termination
		09 = 9Vdc	V = 0.02J	300=30pF	W = 7" reel (10,000pcs)	P = Ni/Sn

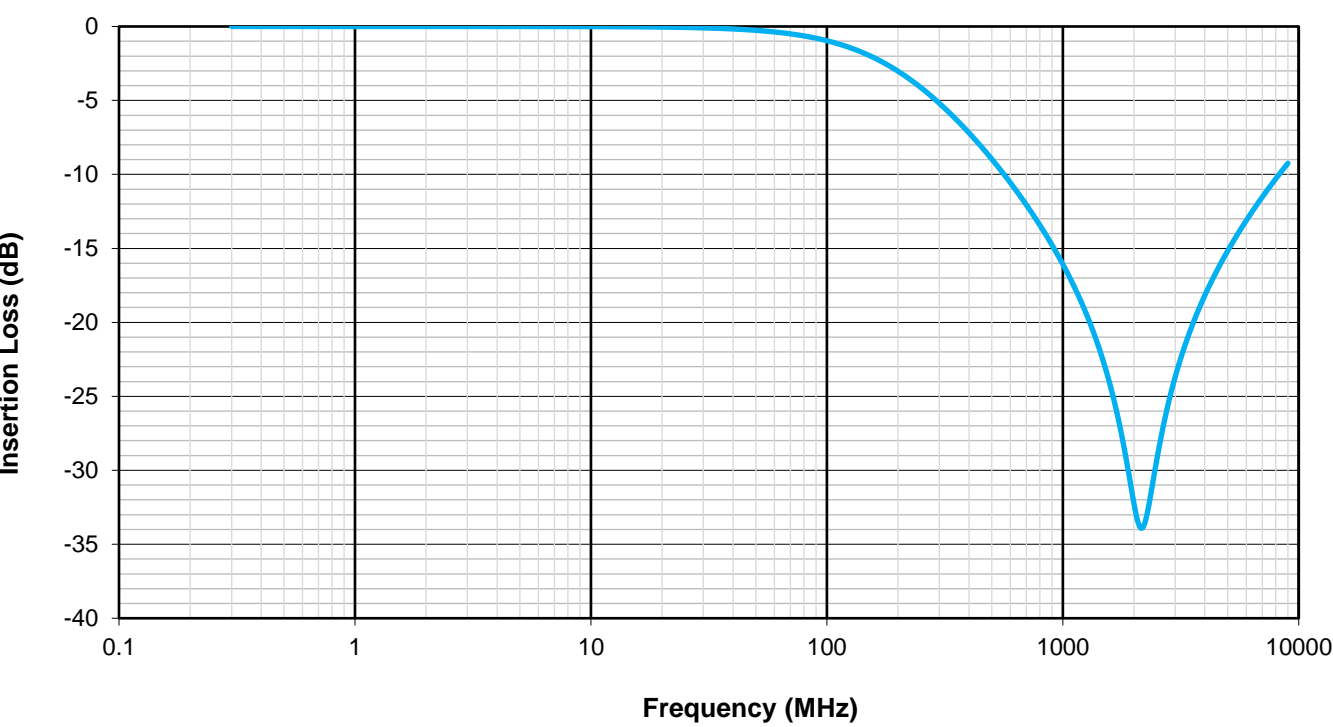
Temperature Derating (Transient Energy, Peak Current, Power)



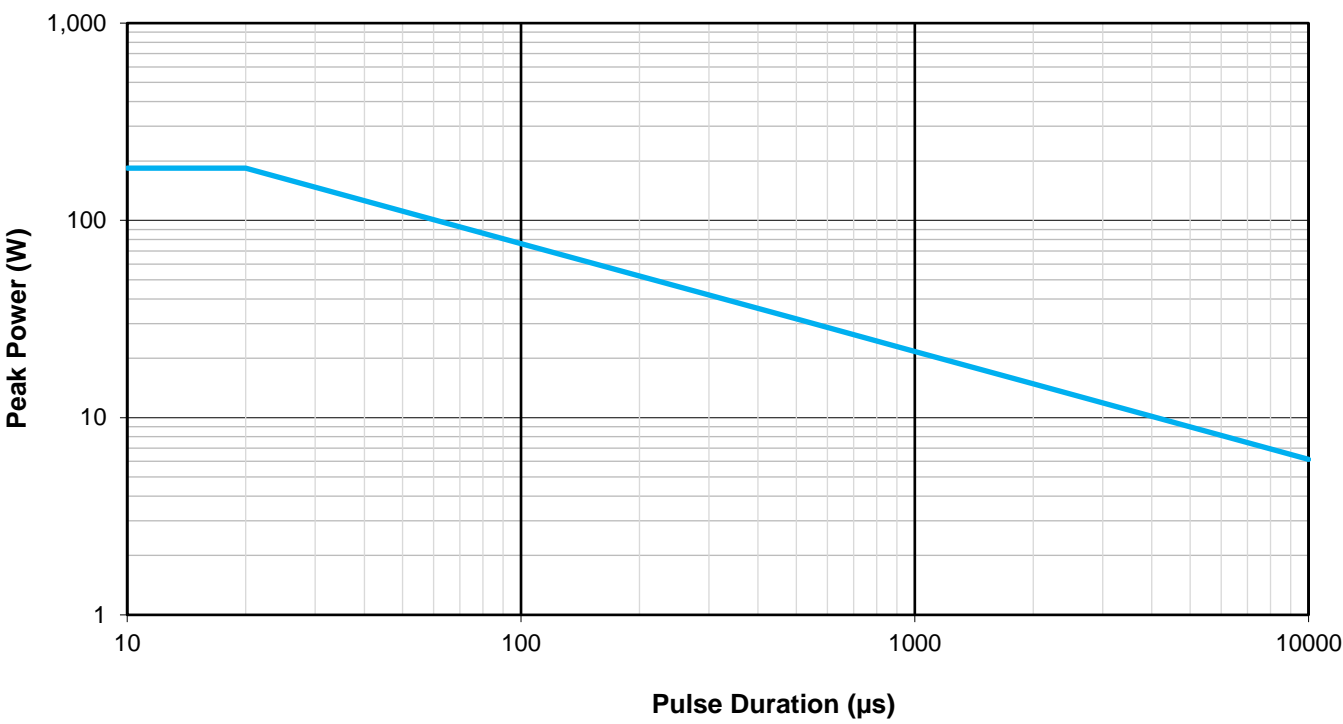
Voltage / Current Characteristics



S21 Characteristics



Power Derating



NOTICE: Specifications are subject to change without notice. All statements, information and data given herein are believed 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.