

VGAH181216P390TP

(1812, 16Vdc, 2.9J, 1000A, 7000pF, Sn Term)

Multilayer Chip Varistor Datasheet

BASIC SPECIFICATION

Case Size [EIA]	1812
Operating Temperature	-55 to +150°C
Grade	Automotive & General
Qualification	AEC-Q200
Termination	Sn
RoHS	Yes
MSL Level	1
Packaging	T&R 13in (330mm)
Packaging Qty	4000 pcs



AEC-Q200
Qualified



RoHS
Compliant

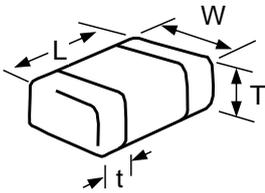


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ELECTRICAL CHARACTERISTICS

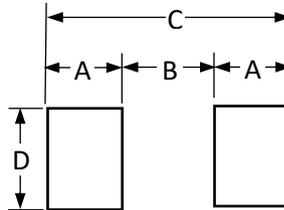
DC Working Voltage	16 Vdc
AC Working Voltage	11 Vac
Breakdown Voltage [1mA DC]	24.5±10% V
Clamping Voltage [8x20µs]	40V @ 5A
Max Leakage Current [Vdc, 25°C]	15 µA
Transient Energy [10x1000µs]	2.9 J
Load Dump Energy [x10]	10 J
Peak Power [10x1000µs]	2180 W
Peak Current Rating [8x20µs]	1000 A
Typical Capacitance [1kHz, 0.5Vrms, 25°C]	7000 pF
Capacitance Tolerance	+100/-50%
Jump Start Voltage [5min]	27.5 V
Power Dissipation	0.07 W

DIMENSIONS



	mm	inches
L	4.50±0.30	0.177±0.012
W	3.20±0.30	0.126±0.012
T	2 max	0.080 max
t	1.00 max	0.039 max

SOLDERING PAD

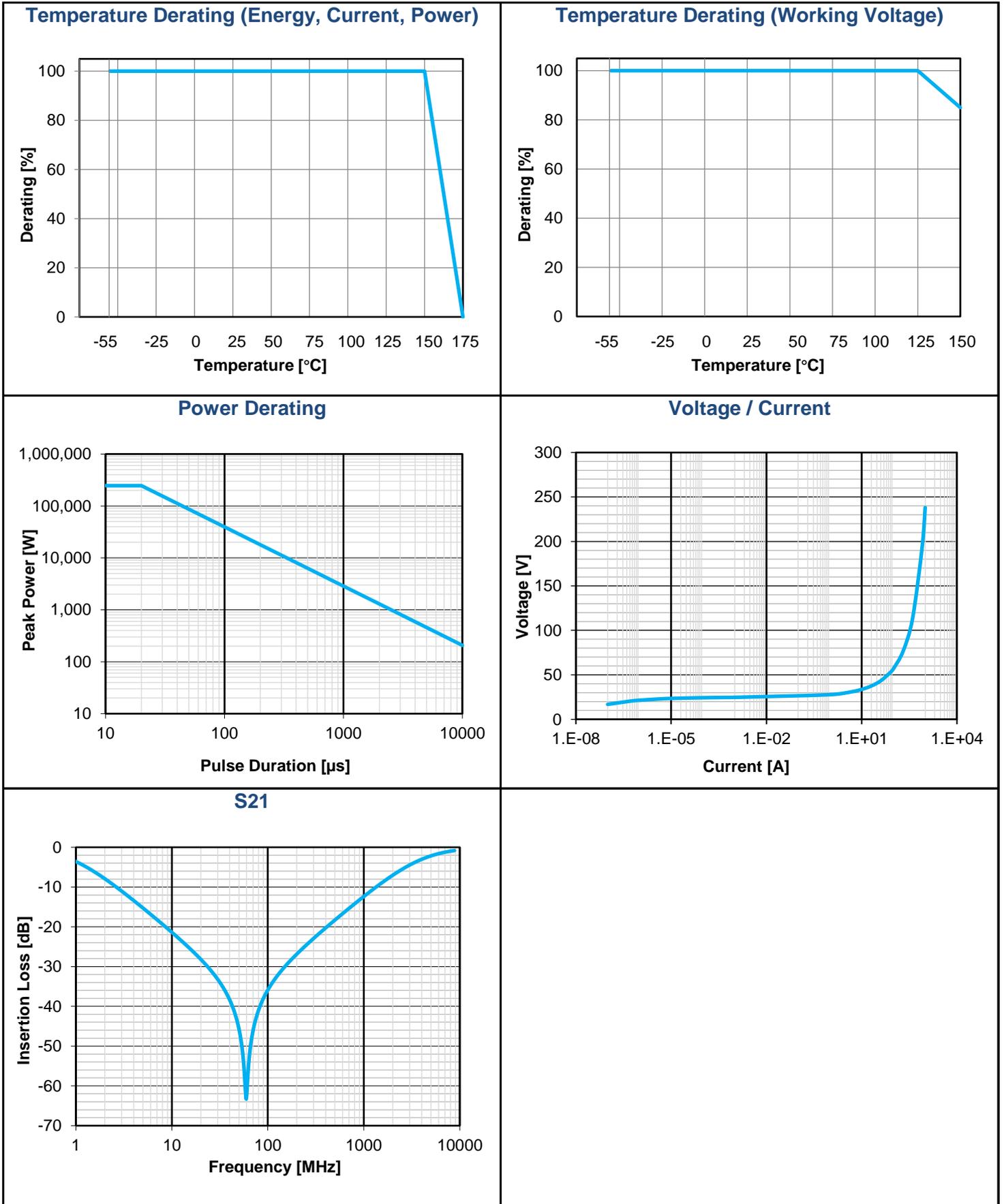


	mm	inches
A	1.70	0.067
B	3	0.118
C	6.4	0.252
D	3.5	0.138

HOW TO ORDER

VGAH	1812	16	P	390	T	P
Varistor Glass Encapsulated 150°C	Case Size	Working Voltage	Energy Rating	Clamping Voltage	Packaging	Termination
		16 = 16 Vdc	P = 2.9J	390 = 40V	D = 7" reel (1,000pcs) T = 13" reel (4,000pcs)	P = Sn

TYPICAL CHARACTERISTICS



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.