VCAS06LC18X500RP

(0603, 18Vdc, 0.05J, 30A, 50pF, Sn Term)

Multilayer Chip Varistor Datasheet

BASIC SPECIFICATION

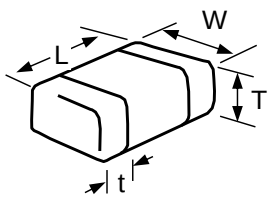
Case Size [EIA]	0603
Operating Temperature	-55 to +125°C
Grade	Automotive
Qualification	AEC-Q200
Termination	Sn
RoHS	Yes
MSL Level	1
Packaging	T&R 7in (180mm)
Packaging Qty	4000 pcs

AEC-Q200 Qualified | **RoHS Compliant** | **Click for Online Data**

ELECTRICAL CHARACTERISTICS

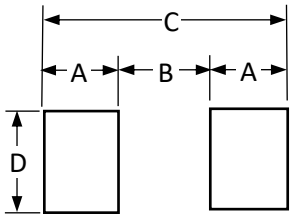
DC Working Voltage	18 Vdc
AC Working Voltage	14 Vac
Breakdown Votage [1mA DC]	25-40 V
Clamping Voltage [8x20µs]	50V @ 1A
Max Leakage Current [Vdc, 25°C]	10 µA
Transient Energy [10x1000µs]	0.05 J
Load Dump Energy [x10]	-
Peak Power [10x1000µs]	38 W
Peak Current Rating [8x20µs]	30 A
Typical Capacitance [1MHz, 0.5Vrms, 25°C]	50 pF
Capacitance Tolerance	+100/-50%
Jump Start Voltage [5min]	27.5 V
Power Dissipation	0.001 W

DIMENSIONS



	mm	inches
L	1.60±0.15	0.063±0.006
W	0.80±0.15	0.031±0.006
T	0.9 max	0.035 max
t	0.35±0.15	0.014±0.006

SOLDERING PAD



	mm	inches
A	0.89	0.035
B	0.76	0.03
C	2.54	0.1
D	0.76	0.03

HOW TO ORDER

VCAS	06	LC	18	X	500	R	P
Varistor Chip Automotive	Case Size	Low Cap	Working Voltage	Energy Rating	Clamping Voltage	Packaging	Termination
	06 = 0603		18 = 18 Vdc	X = 0.05J	500 = 50V	D = 7“ reel (1,000pcs) R = 7“ reel (4,000pcs) T = 13“ reel (10,000pcs)	P = Sn

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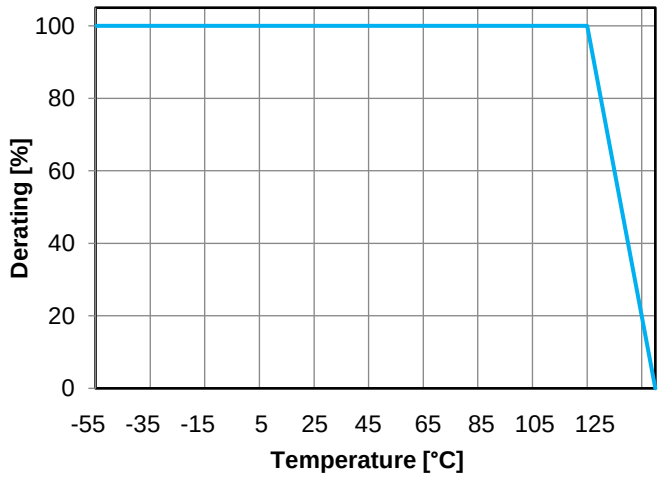
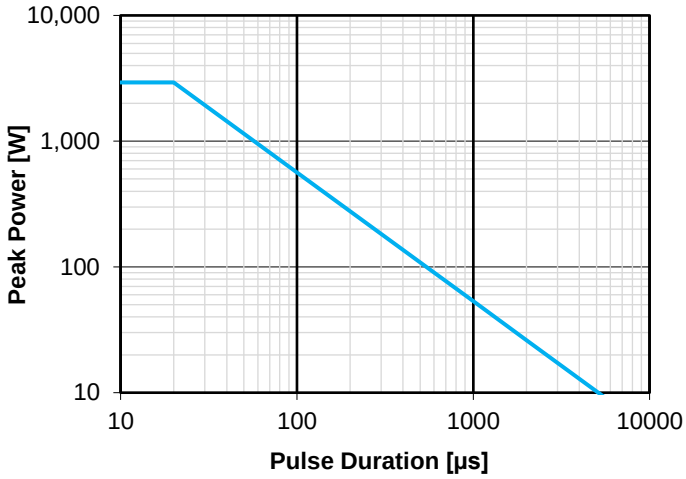
TYPICAL CHARACTERISTICS

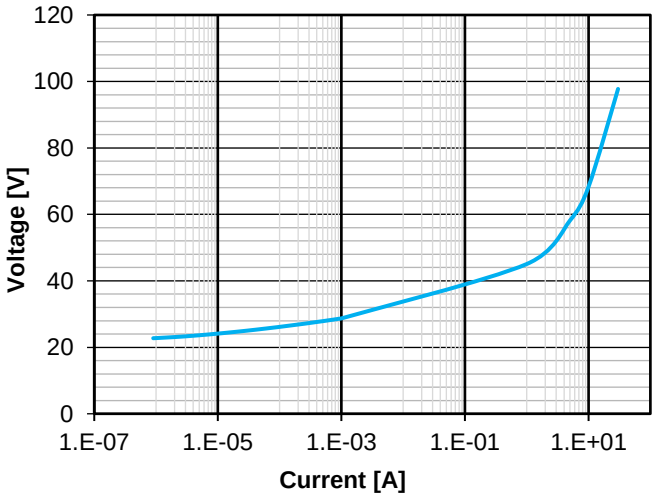
Temperature Derating (Energy, Current, Power)



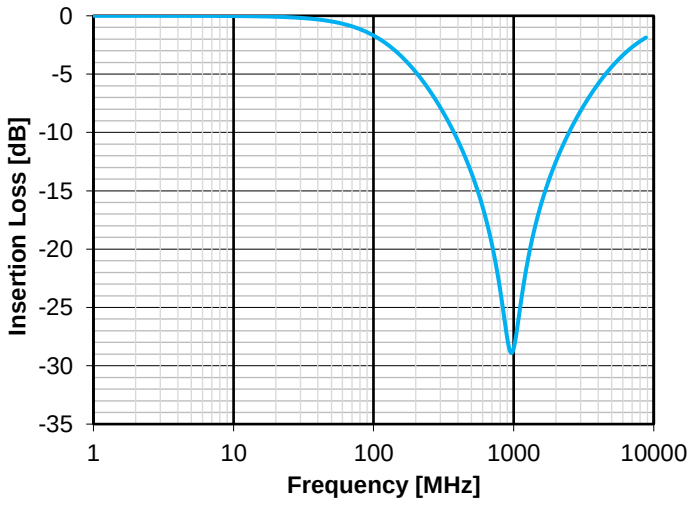
Power Derating



Voltage / Current



S21



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