

# VCAS08LC18A500DP

(0805, 18Vdc, 0.1J, 30A, 80pF, Sn Term)

Multilayer Chip Varistor Datasheet

## BASIC SPECIFICATION

Case Size [EIA]	0805
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	1000 pcs



AEC-Q200  
Qualified



RoHS  
Compliant



Click for  
Online Data

## ELECTRICAL CHARACTERISTICS

DC Working Voltage	18 Vdc
AC Working Voltage	14 Vac
Breakdown Voltage [1mA DC]	25-40 V
Clamping Voltage [8x20µs]	50V @ 1A
Max Leakage Current [Vdc, 25°C]	10 µA
Transient Energy [10x1000µs]	0.1 J
Load Dump Energy [x10]	-
Peak Power [10x1000µs]	75 W
Peak Current Rating [8x20µs]	30 A
Typical Capacitance [1MHz, 0.5Vrms, 25°C]	80 pF
Capacitance Tolerance	+100/-50%
Jump Start Voltage [5min]	27.5 V
Power Dissipation	0.002 W

## DIMENSIONS



	mm	inches
L	2.01±0.20	0.079±0.008
W	1.25±0.20	0.049±0.008
T	1.02 max	0.040 max
t	0.71 max	0.028 max

## SOLDERING PAD



	mm	inches
A	1.02	0.04
B	1.02	0.04
C	3.05	0.12
D	1.27	0.05

## HOW TO ORDER

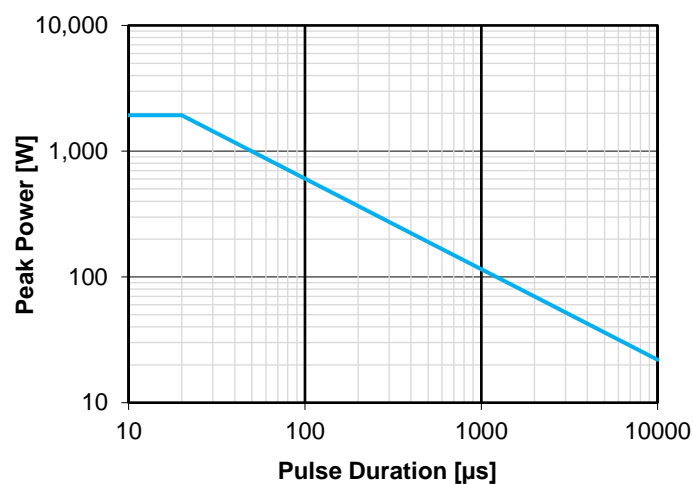
<b>VCAS</b>	<b>08</b>	<b>LC</b>	<b>18</b>	<b>A</b>	<b>500</b>	<b>D</b>	<b>P</b>
Varistor Chip Automotive	Case Size	Low Cap	Working Voltage	Energy Rating	Clamping Voltage	Packaging	Termination
	08 = 0805		18 = 18 Vdc	A = 0.1J	500 = 50V	D = 7" reel (1,000pcs) R = 7" reel (4,000pcs) T = 13" reel (10,000pcs)	P = Sn

## TYPICAL CHARACTERISTICS

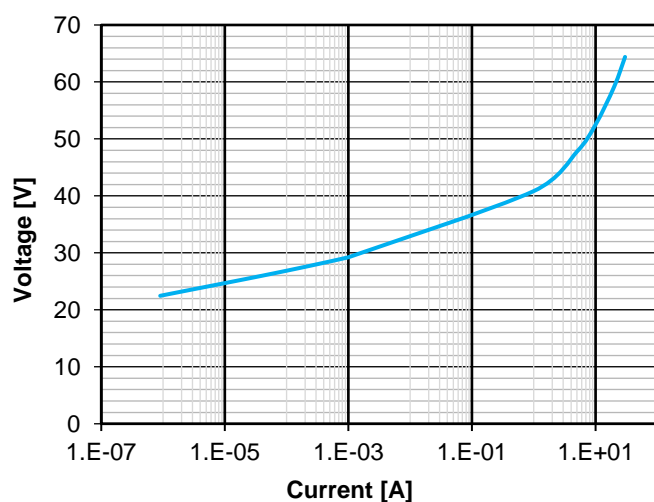
Temperature Derating (Energy, Current, Power)



Power Derating



Voltage / Current



S21

