StaticGuard

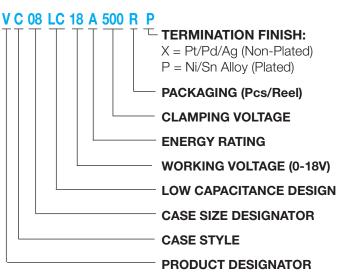
AVX Multilayer Ceramic Transient Voltage Suppressors ESD Protection for CMOS and Bi Polar Systems

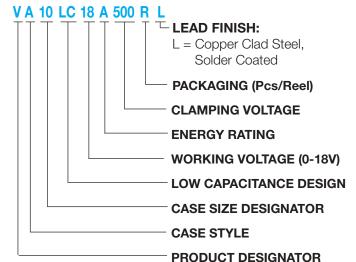
GENERAL INFORMATION

- Typical ESD failure voltage for CMOS and/or Bi Polar is ≥ 200V.
- 15kV ESD pulse (air discharge) per IEC 1000-4-2, Level 4, generates < 20 millijoules of energy.
- Low capacitance (<200pF) is required for high-speed data transmission.
- Low leakage current (I_L) is necessary for battery operated equipment.

PART NUMBER IDENTIFICATION (See page 2 for details)

<u>Chips</u> <u>Axials</u>





111020012201011111011				THOUSANT DEGIGNATION		
AVX Part Number	Working Voltage	Clamping Voltage	Peak Current	Transient Energy	Capacitance	Inductance
Symbol	V _{WM}	V _C	l _{peak}	E _{trans}	С	L
Units	Volts (max.)	Volts (max.)	Amp (max.)	Joules (max.)	pF (typ.)	nH (typ.)
Test Condition	<10µA	8/20µS†	8/20µs	10/1000µS	0.5Vrms @: 1 MHz	di/dt = 100mA/ns
VC04LC18V500	See specifications on page 3 and performance data on page 4.					
VC06LC18X500	≤18.0	50	20	.05	75	<1.0
VC08LC18A500	≤18.0	50	30	0.1	100	<1.5
VC12LC18A500 _ *	≤18.0	50	30	0.1	200	<1.7
VA10LC18A500 _ L	≤18.0	50	30	0.1	200	<3.5

Let Termination Finish: X = Pt/Pd/Ag (Non-Plated)

P = Ni/Sn Alloy (Plated)

* = Contact Factory for Availability

Lead Finish: L = Copper Clad Steel, Solder Coated

Packaging (Pcs/Reel): see page 2

 V_{wm} —Maximum steady-state DC operating voltage the varistor can maintain and not exceed 50 μ A leakage current V_{c} —Maximum peak voltage across the varistor measured at a specified pulse current and waveform

†Transient Energy Rating <0.05 Joule

Pulse Current & Waveform

0.1 Joule

1A 8/20µS 2A 8/20µS

Dimensions: Millimeters (Inches)



 I_{peak} —Maximum peak current which may be applied with the specified waveform without device failure E_{tran} —Maximum energy which may be dissipated with the specified waveform without device failure

C—Device capacitance measured with zero volt bias 0.5Vrms and 1MHz

L—Device inductance measured with a current edge rate of 100 mA/nS

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TYPICAL PERFORMANCE DATA

