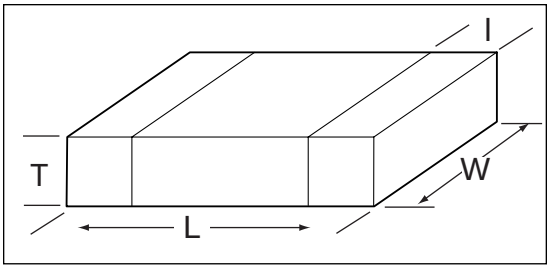
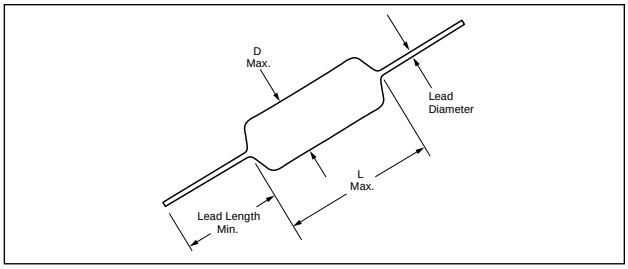
Transient Voltage Suppressors

StaticGuard – ESD Protection for CMOS Systems





HOW TO ORDER

V C 08 LC 18 A 500 R

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① **AVX Style:** V=Varistor (StaticGuard)

② **Case Size:** C=Chip

③ **Case Size Designator:**

CODE SIZE	LENGTH	WIDTH
04=0402	1.00±0.1mm (.039"±.004")	0.5±0.1mm (.020"±.004")
06=0603	1.60±0.15mm (.063"±.006")	0.8±0.15mm (.032"±.006")
08=0805	2.01±0.2mm (.079"±.008")	1.25±0.2mm (.049"±.008")
12=1206	3.20±0.2mm (.126"±.008")	1.60±0.2mm (.063"±.008")

④ **Low Capacitance Design**

⑤ **Working Voltage**

⑥ **Energy Rating**

⑦ **Clamping Voltage**

⑧ **Packaging (Pcs/Reel):**

D = 1,000 pieces per reel
R = 4,000 pieces per reel
T = 10,000 pieces per reel

HOW TO ORDER

V A 10 LC 18 A 500 R

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① **AVX Style:** V=Varistor (StaticGuard)

② **Case Size:** A=Axial

③ **Case Size Designator:**

CODE	LENGTH	WIDTH
10	4.32mm max. (.170")	2.54mm max. (.100")

④ **Low Capacitance Design**

⑤ **Working Voltage**

⑥ **Energy Rating**

⑦ **Clamping Voltage**

⑧ **Packaging (Pcs/Reel):**

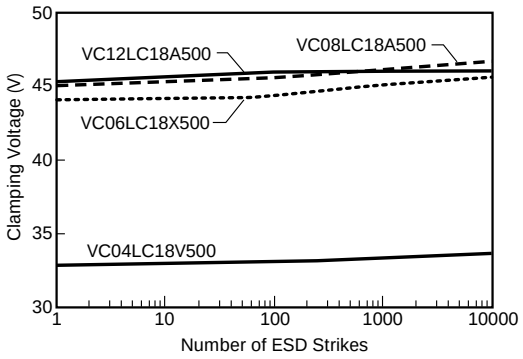
D = 1,000 pieces per reel
R = 3,000 pieces per reel
T = 7,500 pieces per reel

AVX Part Number	Working Voltage	Clamping Voltage	Peak Current	Transient Energy	Capacitance	Inductance
Symbol	V_{WM}	V_C	I_{peak}	E_{trans}	C	I_L
Units	Volts (max.)	Volts (max.)	Amp. (max.)	Joules (max.)	pF (typ.)	nH (typ.)
Test Condition	<50µA	8/20µS†	8/20µs	10/1000µS	0.5Vrms @: 1MHz	di/dt = 100 mA/ns
VC04LC18V500	≤18V	<50V	15	0.02	40	<1.0
VC06LC18X500	18V	50V	20	0.05	75	<1.0
VC08LC18A500	18V	50V	30	0.1	100	<1.0
VC12LC18A500	18V	50V	30	0.1	200	<1.0
VA10LC18A500	18V	50V	30	0.1	200	<1.0

See note page 105

StaticGuard ESD RESPONSE

IEC 1000-4-2 (8Kv Contact Discharge)



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document **#102**. Visit our website http://www.avxcorp.com