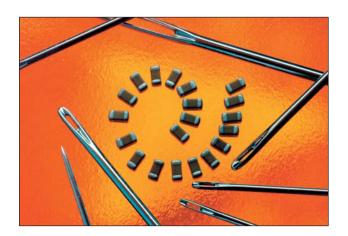
StaticGuard Automotive Series



Multilayer Varistors for Automotive Applications



GENERAL DESCRIPTION

The StaticGuard Automotive Series are low capacitance versions of the TransGuard and are designed for general ESD protection of CMOS, Bi-Polar, and SiGe based systems. The low capacitance makes these products suitable for use in automotive CAN and LIN bus communication lines as well as other high speed data transmission applications requiring low capacitance protection.

GENERAL CHARACTERISTICS

- Operating Temperature: -55°C to 125°C
- Working Voltage: ≤ 18Vdc
- Case Size: 0402, 0603, 0805

FEATURES

- AEC Q200 Qualified
- ISO 7637 Pulse 1-3 capability
- Meet 27.5Vdc Jump Start requirements
- Multi-strike capability
- Sub 1nS response to ESD strike

APPLICATIONS

- CAN BUS
- LIN BUS
- CMOS
- Module interfaces
- Switches
- Sensors
- Camera modules
- Datalines
- Capacitance sensitive applications and more

R

10000

HOW TO ORDER

VC	VC AS		LC	<u>18</u>	×			
Varistor Chip	Series AS = Automotive	Case Size 04 = 0402 06 = 0603 08 = 0805	Low Cap Design	Working Voltage 18 = 18.0VDC	Energy Rating A = 0.10 Joules V = 0.02 Joules X = 0.05 Joules			

Clamping Packaging Voltage (PCS/REEL) 150 = 18VD = 1,000 200 = 22VR = 4,000300 = 32VT = 10,000400 = 42VW = 0402500 = 50V

500



RoHS COMPLIANT

ELECTRIAL CHARACTERISTICS

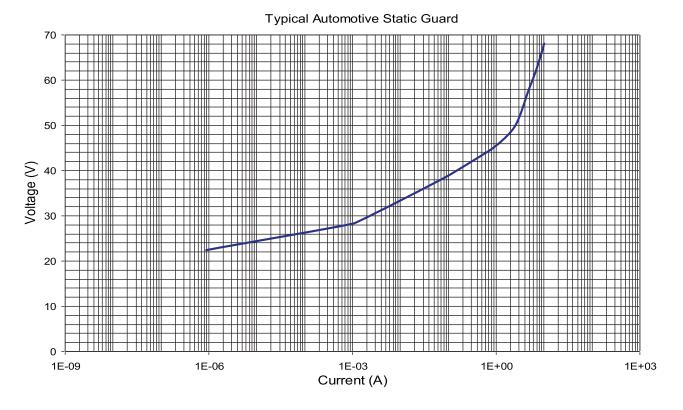
	AVX PN	V _w (DC)	V _w (AC)	V _B	Vc	Ivc	۱	E _T	I _P	Сар	Freq	V _{JUMP}	P _{DISS}	Size
VCAS04LC18V500 ≤18.0 ≤14.0		25-40	50	1	10	0.02	15	40	М	27.5	0.0004	0402		
VC	AS06LC18X500	≤18.0	≤14.0	25-40	50	1	10	0.05	30	50	М	27.5	0.001	0603
VC	AS08LC18A500	≤18.0	≤14.0	25-40	50	1	10	0.1	30	80	М	27.5	0.002	0805
Vw(DC) DC Working Voltage [V] Vw(AC) AC Working Voltage [V] Vs Typical Breakdown Votage [V @ 1mA _{bc} , 25°C] Vc Clamping Voltage [V @ 1wc] Ivc Test Current for Vc [A, 8x20µs]		E _T I _P Cap V _{Jump}	Peak Co Typical and 0.5 Jump S	urrent Rating [A capacitance [pf V _{RMS} , 25°C, M = tart [V, 5 min]	g [J, 10x1000µ8 , 8x20µS] F] @ frequency : = 1MHz, K = 1k	specified								
IL Maximum leakage current at the working			P _{DISS}		Dissipation [W]									

/AV/X

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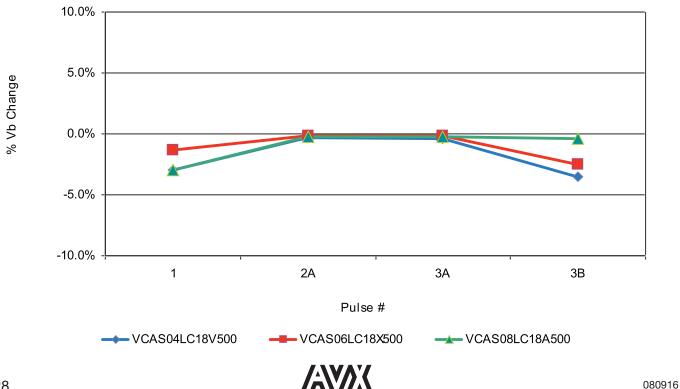


VOLTAGE/CURRENT CHARACTERISTICS



ELECTRICAL TRANSIENT CONDUCTION

ISO 7637 Pulse 1-3

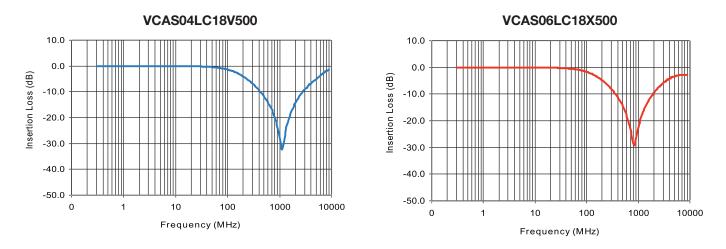


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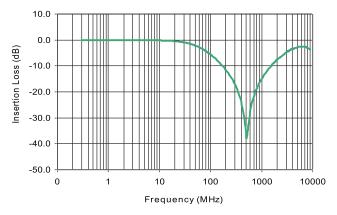




VOLTAGE/CURRENT CHARACTERISTICS



VCAS08LC18A500



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Kyocera AVX:

VCAS04LC18V500WP VCAS06LC18X500DP VCAS06LC18X500RP VCAS08LC18A500DP VCAS08LC18A500RP