

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: VCAS06LC18X500TP
Manufacturer: KYOCERA AVX
Package: 0603 (1608 Metric)
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/kyocera-avx/vcas06lc18x500tp.html>

Request a Quote:

[Submit RFQ for this part](#)



Scan for product page

Contact Information

Email: info@antrexco.com

WhatsApp: +86-186-8066-5326

Website: <https://antrexco.com>

Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

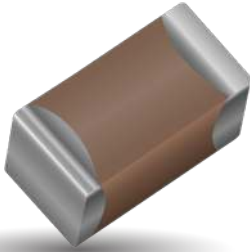
Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

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: $\leq 18\text{Vdc}$
- 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

HOW TO ORDER

VC	AS	06	LC	18	X	500	R	P
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 Voltage 150 = 18V 200 = 22V 300 = 32V 400 = 42V 500 = 50V	Packaging (PCS/REEL) D = 1,000 R = 4,000 T = 10,000 W = 0402 10000	Termination P = Ni/Sn



ELECTRIAL CHARACTERISTICS

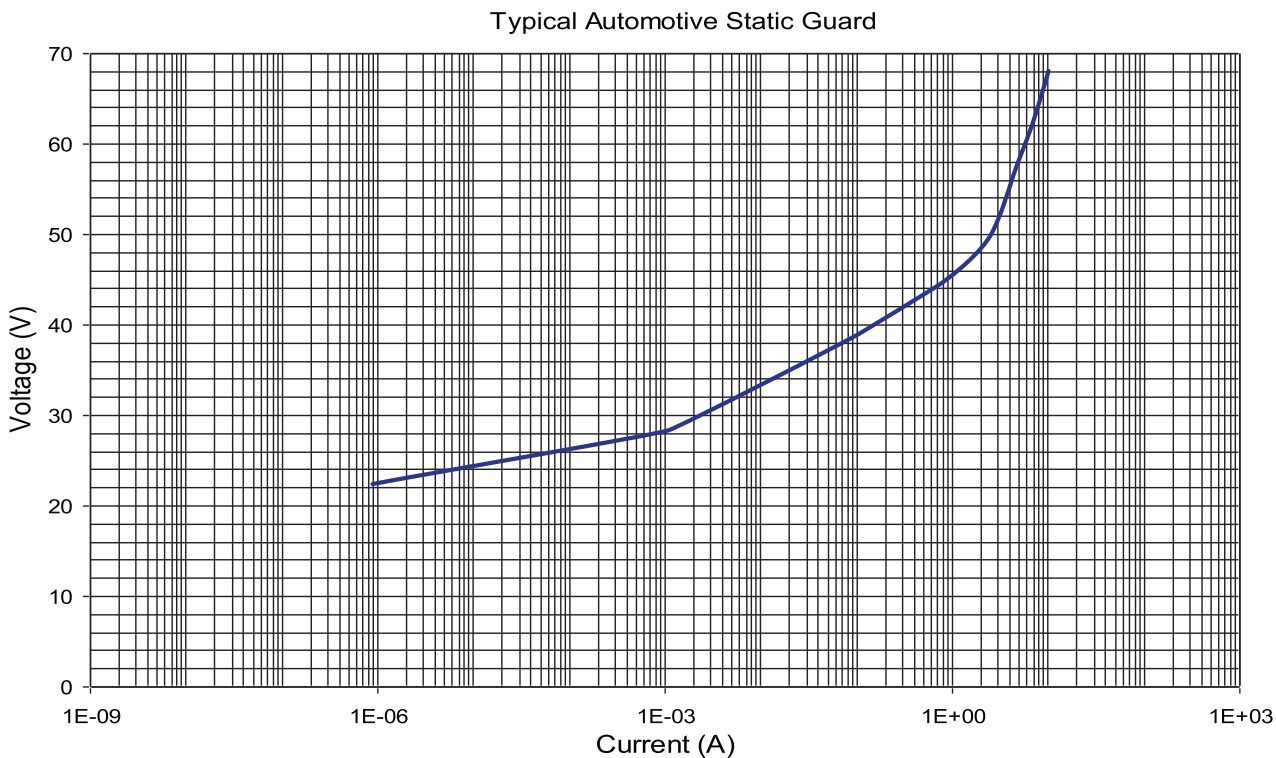
Part Number	VW (DC)	VW (AC)	VB	VC	IVC	IL	ET	IP	Cap	Freq	VJUMP	PDISS	Size
VCAS04LC18V500	≤ 18.0	≤ 14.0	25-40	50	1	10	0.02	15	40	M	27.5	0.0004	0402
VCAS06LC18X500	≤ 18.0	≤ 14.0	25-40	50	1	10	0.05	30	50	M	27.5	0.001	0603
VCAS08LC18A500	≤ 18.0	≤ 14.0	25-40	50	1	10	0.1	30	80	M	27.5	0.002	0805

$V_W(\text{DC})$	DC Working Voltage [V]	E_T	Transient Energy Rating [J, 10x1000 μs]
$V_W(\text{AC})$	AC Working Voltage [V]	I_P	Peak Current Rating [A, 8x20 μs]
V_B	Typical Breakdown Voltage [V @ 1mA DC, 25°C]	Cap	Typical capacitance [pF] @ frequency specified and 0.5V _{RMS} , 25°C, M = 1MHz, K = 1kHz
V_C	Clamping Voltage [V @ I _{VC}]	V_{Jump}	Jump Start [V, 5 min]
I_{VC}	Test Current for VC [A, 8x20 μs]	P_{DISS}	Power Dissipation [W]
I_L	Maximum leakage current at the working voltage, 25°C [μA]		

StaticGuard Automotive Series
Multilayer Varistors for Automotive Applications

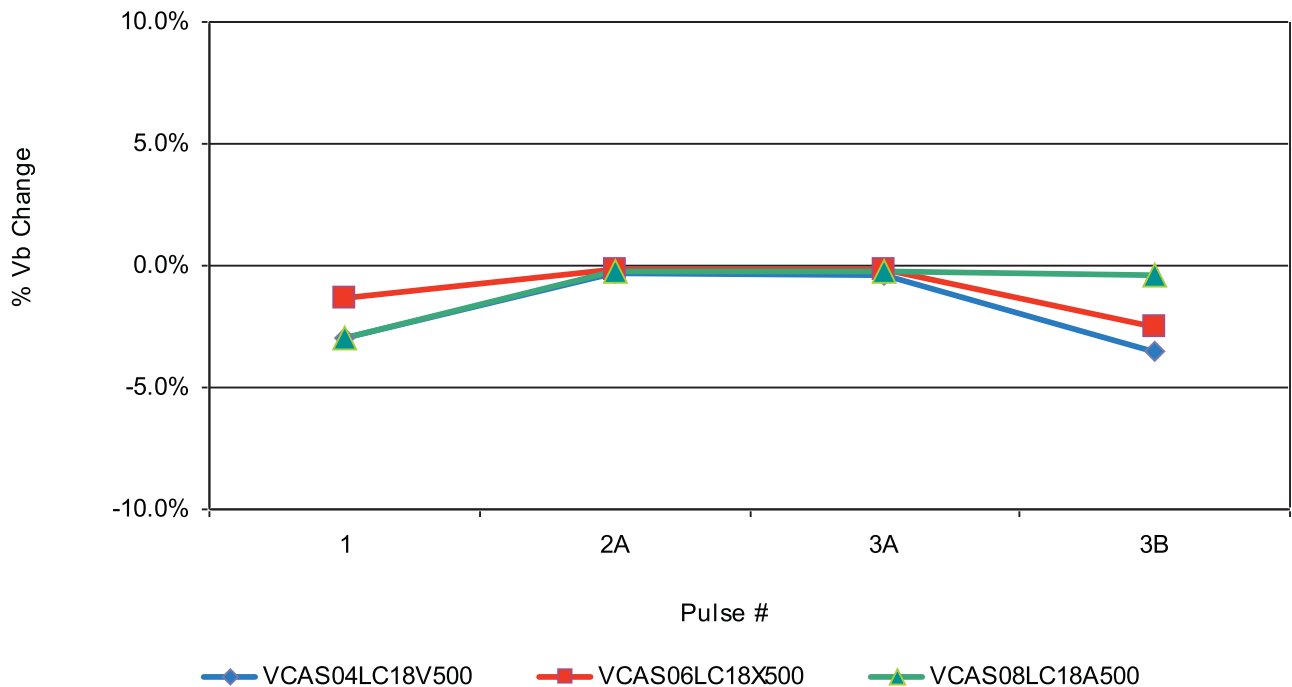


VOLTAGE/CURRENT CHARACTERISTICS



ELECTRICAL TRANSIENT CONDUCTION

ISO 7637 Pulse 1-3



StaticGuard Automotive Series
Multilayer Varistors for Automotive Applications



VOLTAGE/CURRENT CHARACTERISTICS

