

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: VCASH4AG160R8MATWA
Manufacturer: KYOCERA AVX
Package: 0402 (1005 Metric)
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/kyocera-avx/vcash4ag160r8matwa.html>

Request a Quote:

[Submit RFQ for this part](#)



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Contact Information

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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.

AntennaGuard Automotive Series Sub pF

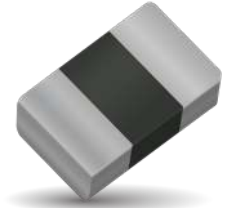
Ultra-low Capacitance Automotive Varistor for ESD Protection for Automotive Circuits Sensitive to Capacitance



GENERAL DESCRIPTION

KYOCERA AVX offers ultra-low capacitance ESD protection in the Sub 1pF range for use in automotive circuits that are sensitive to capacitance. The Automotive Sub pF Varistor (ASPV) is available in 0.8pF capacitance value in a compact 0402 low profile package. ASPV devices provide excellent response time to ESD strikes to protect sensitive circuits from over voltage.

The development of new information processing technologies call for ever increasing digital system speeds. Higher speeds necessitate the use of ultra-low capacitance values in order to minimize signal distortion.



GENERAL CHARACTERISTICS

- Operating Temperature: -55°C to +125°C
- Working Voltage: 16Vdc
- Case Size: 0402 low profile
- Capacitance < 1pF

FEATURES

- High Reliability
- Capacitance <1pF
- Bi-Directional protection
- Fastest response time to ESD strikes
- Multi-strike capability
- Low insertion loss
- Low profile 0402 case size
- AEC-Q 200 Qualified

APPLICATIONS

- Antennas, RF circuits
- Optics
- HDMI, Firewire, Thunderbolt
- High speed communication bus
- GPS
- Camera link
- Sensors
- Touch screen interfaces
- Circuits sensitive to capacitance

HOW TO ORDER

VC Varistor Chip	AS Automotive Series	H4 Chip Size Low Profile 0402	AG Varistor Series AG Series Ultra-low Capacitance	16 Working Voltage 16 = 16V	0R8 Capacitance 0R8 = 0.8pF	M Tolerance M = ±20%	A N/A	T Termination T = Ni Barrier/ 100% Sn	W Reel Size W = 7"	A Reel Quantity A = 10k
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ANTENNAGUARD CATALOG PART NUMBERS/ELECTRICAL VALUES

Part Number	V _w (DC)	V _B	I _L	Cap	Cap Tolerance	3db Freq (MHz)	Case Size
VCASH4AG160R8MA	≤16	125	1	0.8	±20%	5800	LP 0402

V _w (DC)	DC Working Voltage (V)
V _B	Typical Breakdown Voltage (V @ 1mA DC)
I _L	Typical leakage current at the working voltage
Cap	Typical capacitance (pF) @ frequency specified and 0.5V _{RMS}
Freq	Frequency at which capacitance is measured (M = 1MHz)

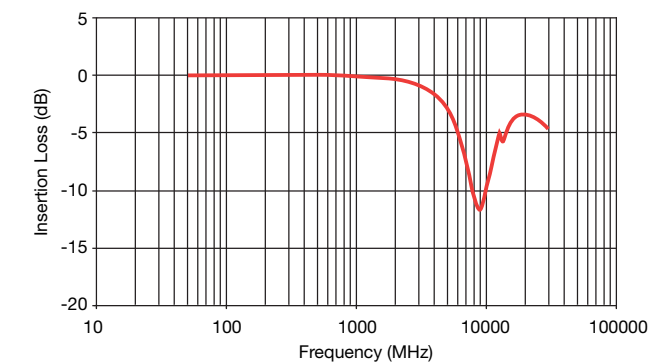


AntennaGuard Automotive Series Sub pF

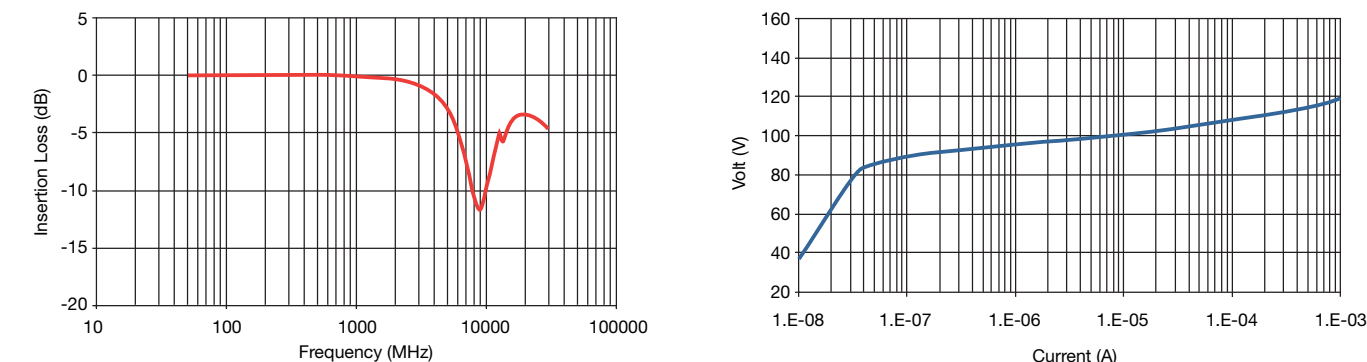
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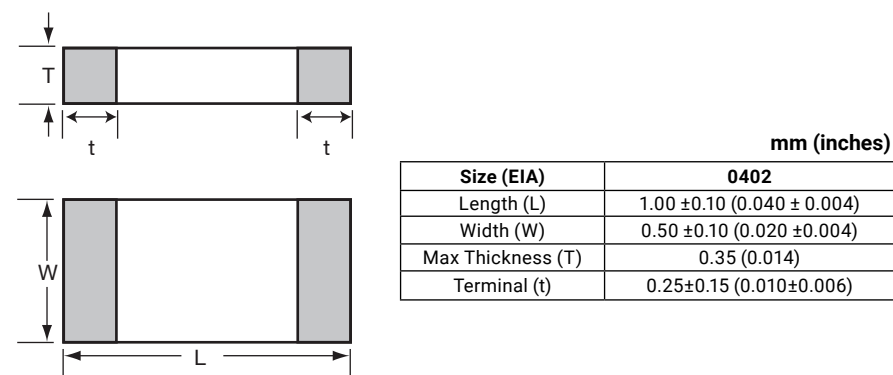
S21 TRANSMISSION CHARACTERISTICS -SPV



V/I CURVE - SPV



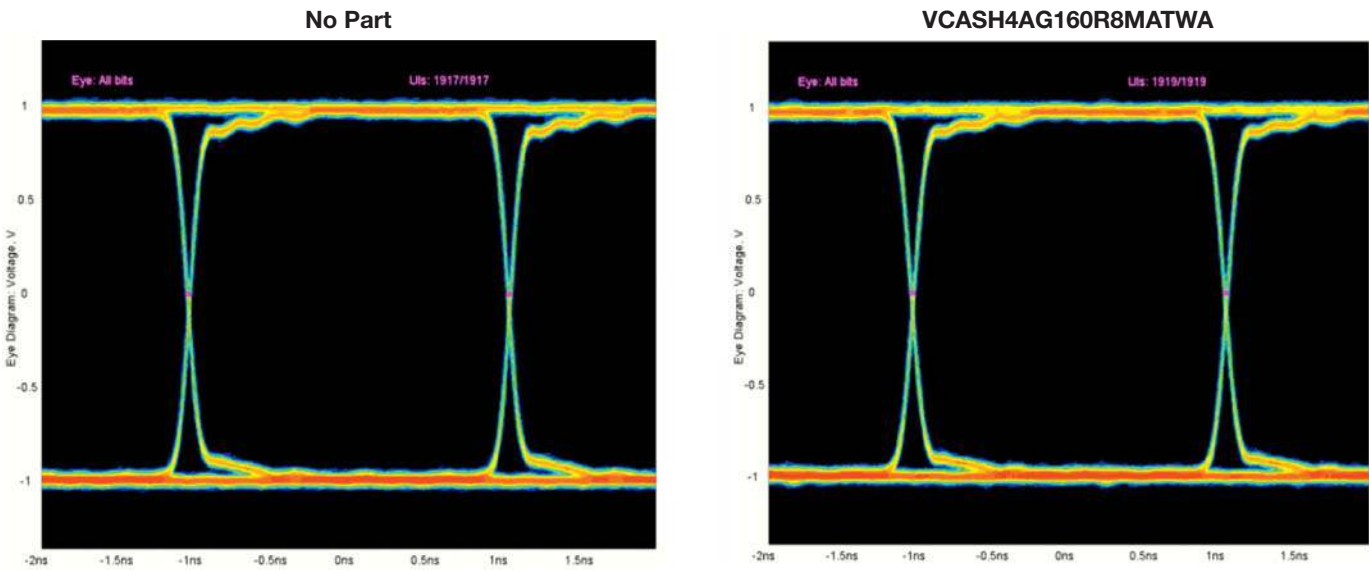
DIMENSIONS



AntennaGuard Automotive Series Sub pF
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EYE DIAGRAM - USB-HS (480MHZ) TEST



EYE DIAGRAM - PCI-E (2.5GHZ) TEST

