

Communication Bus Varistors CAN



Catalog Datasheet

<http://avx.com/docs/Catalogs/canbus.pdf>

Scan Code for Datasheet



Basic Overview

Low capacitance Communication Bus Varistors are designed for bi-directional transient voltage protection of communication bus, data lines, and other capacitance sensitive applications with the advantage of EMI/RFI attenuation in the off-state.

Positioning

Parts offer the advantages of large in-rush current capability, low capacitance to minimize signal distortion, fast turn on time to conservatively clamp the energy before its maximum and off state EMI filtering through their bulk capacitance. These features coupled with an extremely low FIT rate and excellent process capability make an ideal device for automotive or general circuit protection.

Applications

- Communication Bus
- General I/O Protocols
- Data lines
- Sensors
- and more

Top Selling Points

- Bi-directional protection and EMI filtering
- AEC Q200 Qualified
- Fastest response to ESD
- Low Capacitance / Low Insertion Loss

Characteristics and Features

- Operating temp: -55 to +125°C
- 0402, 0603, 0508 2xarray, 0612 4x array case
- Multiple strikes capability
- Bi-directional
- High reliability
- Excellent solderability

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How to Order

CAN

Style

CAN = CAN BUS
FLX = FlexRay

0001

Case Size

0001 = 0603 Discrete
0002 = 0405 2-Element
0004 = 0612 4-Element
0005 = 0402 Discrete
0007 = 0603 Discrete

D

Packaging Code (Reel Size)

D = 7" reel (1,000 pcs.)
R = 7" reel (4,000 pcs.)
T = 13" reel (10,000 pcs.)
W = 7" reel (10,000 pcs.) 0402 only

P

Termination

P = Ni/Sn Alloy
(Plated)



Series Cross

AVX Series	Competitor	Competitor Series
CAN	Epcos	CT, CN
	Panasonic	EZJ
	TDK	AVR

FAQ's

Q: What is the advantage of the AVX Communication Bus Varistor?

A: The Communication Bus Varistors are designed for use in temperatures from -55°C to +125°C with no derating, provide bi-directional protection against ESD strikes, very fast response, multiple strikes capability and high reliability. The parts are RoHS compliant and offer excellent solderability, Pd/Ag termination parts for hybrid assembly are also available as option upon request.

Q: What is the advantage compared to TVS diodes?

A: AVX Varistors offer smaller size, bi-directional protection, faster response time to ESD, no derating over operating temperature range, multiple strike capability, high reliability and EMI filtering in the off-state so they can replace back-to-back diode and EMC cap.

Q: Are the parts RoHS compliant?

A: Yes.

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