



VLAS SERIES TRANS GUARD® VARISTOR

LOW CLAMP / AEC-Q200 QUALIFIED



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<http://datasheets.avx.com/AVX-VLAS-Series.pdf>

SPECIFICATIONS

- **Operating Temperature:** -55 to +125°C
- **Working Voltage:** 16Vdc
- **Energy:** 0.1 – 1.6J
- **Load Dump:** 0.7 – 3J
- **Peak Current:** 50 – 500A
- **Capacitance:** 400 – 5000pF

APPLICATIONS

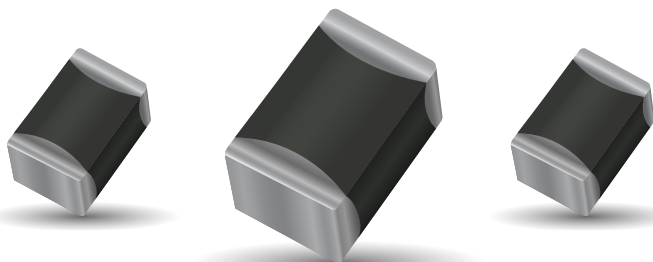
- Infotainment
- ECU
- Displays
- Microcontrollers

TOP SELLING POINTS & FEATURES

- AEC-Q200 Qualified
- Most efficient TVS technology per unit volume among comparable circuit protection solutions
- Bi directional protection and EMI filtering
- Lower clamping to working voltage ratio for sensitive circuits
- Excellent lead free solderability thanks to Ni Barrier / 100% Sn termination
- Meets low clamping to working voltage ratio requirements for automotive, industrial, and general applications

AVX ADVANTAGE

Compared to standard varistors, low clamp varistors exhibit lower breakdown and clamping to working voltage ratio and provide enhanced protection for components with higher sensitivity to overvoltage.





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HOW TO ORDER

VL

Varistor Low
Clamp

AS

Automotive
Series

0603

Case
Size
0603
0805
1206
1210

16

Working
Voltage
16 = 16Vdc

A

Energy
Rating
A = 0.1J
C = 0.3J
E = 0.5J
J = 1.6J

350

Clamping
Voltage
350 = 35V

R

Package
D = 7" (1,000)
R = 7" (4,000)
T = 13" (10,000)

P

Termination
P = Ni/Sn plated

FAQs

Q: How does it offer broadband filtering in the off-state?

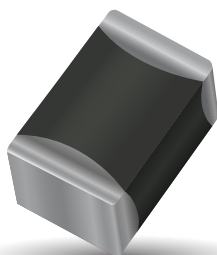
A: Similar MLCC construction. Offers capacitance up to a specified voltage, at which point current is shunted.

Q: Can I replace a diode with a multilayer varistor for size/weight advantages?

A: Yes, but with care. Datasheet comparisons & circuit analysis are required.

Q: What is typical lead time?

A: 14 weeks



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