



# 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

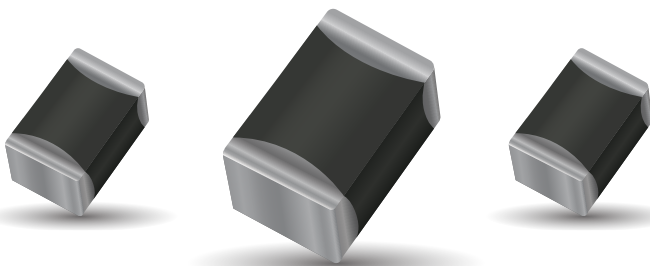
- Infotainment
- ECU
- Displays
- Microcontrollers

### 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?**

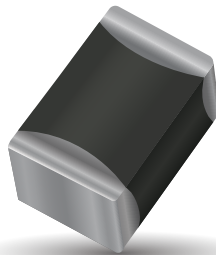
A: Similar MLCC construction. Offers capacitance up to a specified voltage, at which point current is shunted.

**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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