



AEC-Q200 Qualified Thin Film Chip Resistors in the Compact 02016 Case Size Deliver Stable High Frequency Performance to 70 GHz, Provide High Performance Under Harsh Environmental Conditions

Product Benefits:

- Operating frequency up to 70 GHz
- AEC-Q200 qualified
- Thin film microwave resistors
- Compact 02016 case size
- Wide resistance value range from 10 Ω to 500 Ω
- Low internal reactance
- Reduce development time and costs:
 - S-parameter data available for electronic simulation
 - 3D models available for Ansys® HFSS™ and Modelithics Microwave Global Models™ (PCB and pad-scalable)
 - Design kits available
- RoHS-compliant, halogen-free, and Vishay Green



Market Applications:

- Automotive ADAS, LiDAR, connectivity, and 4D radar systems; LEO satellites and space communication systems; military guidance and telemetry systems; drones; and RF antennas

The News:

Vishay Intertechnology introduces a new series of AEC-Q200 qualified thin film chip resistors that provide high frequency performance up to 70 GHz for automotive, space, avionics, telecom, and military applications.

- The devices exhibit behavior close to a pure resistor over their large frequency range, with a nearly flat Z/R curve to 70 GHz
- The microwave resistors maintain their high frequency stability even after the most stressful AEC-Q200 tests — validated by their ΔR and Z/R measurements — guaranteeing high performance under harsh environmental conditions

The Key Specifications:

- Operating frequency: 70 GHz
- Case size: 02016
- Resistance range: 10 Ω to 500 Ω
- Rated power: 30 mW at +70 °C
- Limiting element voltage: 30 V
- Temperature coefficient: ± 100 ppm/°C (± 50 ppm/°C on request)



NEW PRODUCT INFORMATION



Product Group: Vishay Sfernice, Thin Film Resistors / **July 2024**

Availability:

Samples and production quantities of the CHA series are available now, with lead times of 20 weeks.

To access the product datasheet on the Vishay Website, go to

<http://www.vishay.com/ppg?53086> (CHA)

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