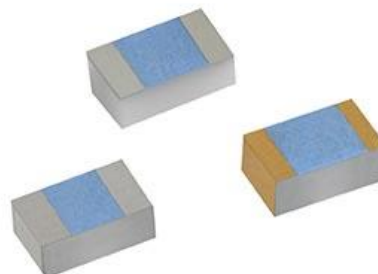




CHA Series of AEC-Q200 Qualified Thin Film Chip Resistors Now Available in 0402 Case Size With Stable High Frequency Performance Up to 50 GHz Under Harsh Environmental Conditions

Product Benefits:

- Compact 0402 case size
- AEC-Q200 qualified
- Wide range of resistance values from 10 Ω to 500 Ω
- Operating frequency up to 50 GHz
- 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
- Offered in waffle pack and tape and reel packaging



Market Applications:

- Automotive ADAS, LIDAR, connectivity, and 4D radar systems; LEO satellites and space communication systems; X-ray, MRI, and CAT scan machines; 5G / 6G telecommunications equipment, base stations, and repeaters; military guidance and telemetry systems; drones; and RF antennas

The News:

Vishay Intertechnology announces that it has expanded its CHA series of AEC-Q200 qualified thin film chip resistors with new devices in the 0402 case size. Available with a wide range of resistance values from 10 Ω to 500 Ω , CHA0402 resistors provide high frequency performance up to 50 GHz for automotive, telecom, medical, space, avionics, and military applications.

- Now available in the 02016 and 0402 case sizes, CHA series devices offer very low internal reactance and exhibit behavior close to a pure resistor over their large frequency range, with a nearly flat Z/R curve to 70 GHz and 50 GHz, respectively
- 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: 50 GHz
- Case size: 0402
- Resistance range: 10 Ω to 500 Ω
- Rated power: 300 mW at +70 °C
- Limiting element voltage: 37 V
- Temperature coefficient: ± 100 ppm/°C (± 50 ppm/°C on request)



NEW PRODUCT INFORMATION

Product Group: Vishay Sfernice, Thin Film Resistors / June 2025



Availability:

Samples and production quantities of the CHA0402 resistors 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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