

AEC-Q200 Qualified Thick Film Chip Resistors Feature Ultra Compact 0201 Case Size to Save Space, While Maintaining High Reliability in Automotive, Industrial, and Telecommunications Applications

Product Benefits:

- AEC-Q200 qualified
- Ultra compact 0201 case size
- Power rating of 0.05 W at +70 °C
- High temperature operation to +155 °C
- Wide range of resistance values from 10 Ω to 1 M Ω (0 Ω jumper)
- Tolerances of down to $\pm 1\%$
- Suitable for automatic soldering using reflow or vapor phase
- RoHS-compliant and halogen-free



Market Applications:

- Automotive, industrial, and telecommunications applications

The News:

Vishay Intertechnology introduces a new series of AEC-Q200 qualified thick film chip resistors in the ultra compact 0201 case size. Offering a miniature footprint of just 0.6 mm by 0.3 mm by 0.23 mm, the CRCW0201-AT e3 series devices provide designers with a reliable, space-saving solution for automotive, industrial, and telecommunications applications.

- Compared to devices in the next-larger 0402 case size, the resistors are available at a competitive price, while reducing PCB requirements by 50 %. For designers, this supports the ongoing downsizing trend in modern electronics, while maintaining stable electrical performance and high reliability
- The devices feature a protective coating designed for electrical, mechanical, and climatic protection
- The resistors' pure matte tin plating provides compatibility with lead (Pb)-free and lead-containing soldering processes

The Key Specifications:

- Case size: 0201
- Power rating: 0.05 W at +70 °C
- Operating voltage: 30 V
- Operating temperature range: - 55 °C to +155 °C
- Resistance range: 10 Ω to 1 M Ω (0 Ω jumper)
- Resistance tolerances: $\pm 1\%$ and $\pm 5\%$
- TCR: ± 200 ppm/K

Availability:

Samples and production quantities of the CRCW0201-AT e3 series are available now, with lead times of 12 weeks.



NEW PRODUCT INFORMATION

Product Group: Vishay Draloric, Resistors / February 2026



To access the product datasheet on the Vishay Website, go to
<http://www.vishay.com/ppg?20131> (CRCW0201-AT e3)

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