

AEC-Q200 Qualified Standard Thick Film Chip Resistors Combine Sulfur Resistance With Long Term Stability in Five Compact Case Sizes for Automotive, Industrial, and Telecommunications Applications

Product Benefits:

- AEC-Q200 qualified
- Sulfur withstand capability in accordance with ASTM B809-25, demonstrating a maximum resistance drift of 1 % after 1000 h at 60 °C
- High stability across challenging environmental conditions, with $\Delta R/R \leq 1\%$ after 1000 h of rated power at 70 °C
- Available in 0201, 0402, 0603, 0805, and 1206 case sizes
- Power ratings up to 0.25 W
- Operating voltage range from 30 V to 200 V
- Wide resistance range from 10 Ω up to 10 MΩ, with tolerances down $\pm 1\%$
- TCR down to 100 ppm/K
- Suitable for automatic soldering using wave, 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 standard thick film chip resistors. The RCA-SR e3 series combines proven sulfur resistance with long term stability in five compact case sizes for automotive, industrial, and telecommunications applications.

- Designed for use in sulfur-containing environments
- Competing devices are tested for sulfur resistance at the same temperature as the RCA-SR e3 series, but for shorter duration
- 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



NEW PRODUCT INFORMATION

Product Group: Vishay Draloric, Resistors / February 2026



The Key Specifications:

| Part number | RCA0201-SR e3 | RCA0402-SR e3 | RCA0603-SR e3 | RCA0805-SR e3 | RCA1206-SR e3 |
|------------------------------|----------------------------|---------------|-----------------------------|---------------|---------------|
| Case size | 0201 | 0402 | 0603 | 0805 | 1206 |
| Resistance range | 10 Ω to 1 MΩ; jumper (0 Ω) | | 10 Ω to 10 MΩ; jumper (0 Ω) | | |
| Resistance tolerance | | | ± 1 %; ± 5 % | | |
| TCR | ± 200 ppm/k | | ± 100 ppm/K; ± 200 ppm/K | | |
| Power rating P ₇₀ | 0.05 W | 0.1 W | 0.125 W | 0.25 W | 0.25 W |
| Operating voltage | 30 V | 75 V | 75 V | 150 V | 200 V |
| Operating temperature range | | | -55 °C to +155 °C | | |

Availability:

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

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

<http://www.vishay.com/ppg?20132> (RCA-SR e3)

Contact Information:

THE AMERICAS

Paulo Adabo
paulo.adabo@vishay.com

EUROPE

Ove Hach
ove.hach@vishay.com

ASIA/PACIFIC

Mike Phua
mike.phua@vishay.com