



Enhanced RCS0805 e3 AEC-Q200 Qualified, Anti-Surge Thick Film Power Resistor in 0805 Case Size Offers Higher 0.5 W Power Rating, Saves Board Space While Lowering Component Counts and Placement Costs

Product Benefits:

- High power rating of 0.5 W
- Superior pulse load performance and ESD surge characteristics compared to standard chip resistors
- AEC-Q200 qualified
- Resistance range from 1 Ω to 10 M Ω — and 0 Ω jumper
- Resistance tolerances down to $\pm 0.5\%$
- TCR down to ± 100 ppm/K
- RoHS-compliant and halogen-free
- Suitable for processing on automatic assembly systems and for wave, reflow, or vapor phase soldering per IEC 61760-1



Market Applications:

- Automotive, industrial, telecommunications, and medical applications subject to high and repetitive surge pulses

The News:

Vishay Intertechnology announces that it has enhanced the Vishay Draloric RCS0805 e3 anti-surge thick film resistor in the 0805 case size with a higher power rating of 0.5 W.

- With its increased power rating, the RCS0805 e3 can now be used in place of four standard parallel resistors in the 0805 — or next largest — case size, two parallel devices in the larger 1206 case size, or one resistor in the 1210 case size. This allows designers to save board space, while lowering component counts and reducing placement costs

The Key Specifications:

- Case size: 0805
- Resistance range: 1 Ω to 10 M Ω ; 0 Ω jumper
- Resistance tolerance: $\pm 0.5\%$, $\pm 1\%$, and $\pm 5\%$
- TCR: ± 100 ppm/K; ± 200 ppm/K
- Rated dissipation P_{70} : 0.5 W
- Operating voltage: 150 V
- Operating temperature range: $-55\text{ }^{\circ}\text{C}$ to $+155\text{ }^{\circ}\text{C}$

Availability:

Samples of the enhanced RCS0805 e3 are available now, with lead times of 12 weeks.



NEW PRODUCT INFORMATION



Product Group: Vishay Draloric, Resistors / March 2023

To access the product datasheet on the Vishay Website, go to <http://www.vishay.com/ppg?20065> (RCS e3)

Contact Information:

THE AMERICAS

Paulo Adabo
paulo.adabo@vishay.com

EUROPE

Jens Walther
jens.walther@vishay.com

ASIA/PACIFIC

Victor Goh
victor.goh@vishay.com