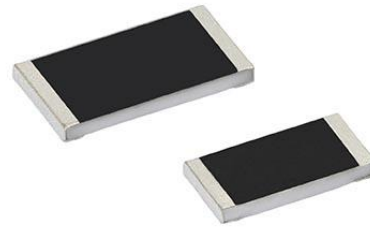


New RCV-AT e3 Series AEC-Q200 Qualified Thick Film Chip Resistors Save Board Space While Lowering Component Counts and Placement Costs; Offer Operating Voltages Up to 3 kV in 2010 and 2512 Case Sizes to Replace Standard Resistor Chains

Product Benefits:

- AEC-Q200 qualified
- High operating voltages up to 3 kV
- Available in the 2010 and 2512 case sizes
- Resistance range from 100 kΩ to 100 MΩ
- Tolerances of $\pm 1\%$ and $\pm 5\%$
- TCR of ± 100 ppm/K and ± 200 ppm/K
- Power ratings up to 1.0 W
- Low voltage coefficient of resistance of 25 ppm/V
- Operating temperature range of $-55\text{ }^{\circ}\text{C}$ to $+155\text{ }^{\circ}\text{C}$
- RoHS-compliant and halogen-free



Market Applications:

- Inverters for electric (EV) and hybrid electric (HEV) vehicles, on-board chargers, and DC/DC converters

The News:

Vishay Intertechnology introduces a new series of AEC-Q200 qualified thick film chip resistors with operating voltages up to 3 kV in the 2010 and 2512 case sizes.

- With their high operating voltages, resistors in the RCV-AT e3 series can be used in place of standard resistor chains to save board space, lower component counts, and reduce placement costs
- The devices are suitable for processing on automatic surface-mount assembly systems, and wave, reflow, or vapor phase soldering per IEC 61760-1

The Key Specifications:

Part number	RCV2010-AT e3	RCV2512-AT e3
Case size	2010	2512
Resistance range	100 kΩ to 100MΩ	
Resistance tolerance	$\pm 5\%$; $\pm 1\%$	
Temperature coefficient	± 200 ppm/K; ± 100 ppm/K	
Voltage coefficient	25 ppm/V	
Rated dissipation P ₇₀	0.75 W	1.0 W
Operating voltage	2000 V	3000 V
Operating temperature range	$-55\text{ }^{\circ}\text{C}$ to $+155\text{ }^{\circ}\text{C}$	



NEW PRODUCT INFORMATION



Product Group: Vishay Draloric, Resistors / September 2021

Availability:

Samples and production quantities of the RCV-AT e3 series are available now, with lead times of 10 weeks.

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

<http://www.vishay.com/ppg?20082> (RCV-AT e3)

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