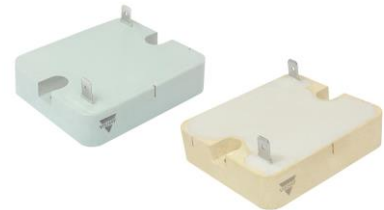




New HRHA AEC-Q200 Qualified Hybrid Wirewound Charging Resistor Lowers Component Counts and Costs in EV, HEVs, and PHEVs; Delivers 10x Higher Energy Absorption Than Standard Thick Film Resistors in the Same Size

Product Benefits:

- AEC-Q200 qualified
- Hybrid wirewound technology
- High operating temperature range up to +250 °C
- High power ratings up to 90 W
- High accuracy and stability:
 - Tolerance down to $\pm 5\%$
 - TCR down to ± 100 ppm/°
 - Resistance range from 1 Ω to 1 k Ω
- 6.35 mm faston connection provides easy mounting
- Can be mounted on a heatsink



Market Applications:

- Pre-charge and discharge resistor in inverters and converters for electric (EV), hybrid electric (HEV), and plug-in hybrid vehicles (PHEV)

The News:

Vishay Intertechnology introduces a new AEC-Q200 qualified charging resistor that is the industry's first such device to feature hybrid wirewound technology in a standard thick film resistor size.

- Typically, designers must utilize several thick film resistors to meet the high pulse requirements of EVs, HEVs, and PHEVs. With ten times the energy absorption in the same size (i.e., 6 kJ for 300 ms), the HRHA allows them to use a single component and lower overall solution costs

The Key Specifications:

- Power rating:
 - On stainless steel: 90 W
 - On Pamitherm: 54 W
- Resistance range: 1 Ω to 1 k Ω
- Tolerance: $\pm 5\%$, $\pm 10\%$
- TCR: ± 100 ppm/°C
- Operating temperature range: -55 °C to +250 °C

Availability:

Samples and production quantities of the HRHA series are available now, with lead times of eight to 12 weeks.



NEW PRODUCT INFORMATION



Product Group: Vishay MCB, Wirewound Resistors / **March 2022**

To access the product datasheet on the Vishay Website, go to <http://www.vishay.com/ppg?32594> (HRHA)

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