New LTO 150 AEC-Q200 Qualified, 150 W Thick Film Power Resistor in Clip Mount TO247 Reduces Component Counts, Costs

*Designed for Direct Mounting on a Heatsink, Device Offers Industry-High Power Dissipation and Improved Pulse Handling Capability*

**Product Benefits:**
- AEC-Q200 qualified
- Clip mount TO247 package
- Designed for direct mounting on a heatsink
- High power dissipation of 150 W at a +45 °C case temperature
- High pulse capabilities to 57 J for 0.1 s
- High temperature operation to +175 °C
- Broad range of resistance values from 0.03 Ω to 1.3 MΩ
- RoHS-compliant
- Non-inductive design
- Tolerances down to ± 1 %

**Market Applications:**
- Precharge or discharge resistor for inverters, converters, and on-board chargers for electric vehicles (EV), hybrid electric vehicles (HEV), and plugged hybrid electric vehicles (PHEV)
- General industrial and military power conversion applications

**Buy It Now:**
[Check distributor stock on the Vishay website](#)

**The News:**
Vishay Intertechnology introduces a new AEC-Q200 qualified thick film power resistor featuring a clip mount TO247 package for direct mounting on a heatsink. For automotive applications, the Vishay Sfernec LTO 150 offers industry-high power dissipation of 150 W at a +45 °C case temperature and an improved pulse handling capability.
- Up to 70 % higher power dissipation than competing devices in the TO247 package
- Reduces the need for components to cool the resistor — saving board space, simplifying layouts, and reducing overall solution costs
- 30 % improvement in energy handling compared to similar TO247 devices
- Allows designers to utilize fewer resistors
- Superior reliability tests results (i.e. extensive temperature cycling from 1000 cycles and up)
The Key Specifications:

- Package: TO247
- Resistance range: 0.03 Ω to 1.3 MΩ
- Rated power at +45 °C case temperature: 150 W
- Operating temperature range: -55 °C to +175 °C
- Tolerances: ± 1 %, ± 2 %, ± 5 %, and ± 10 %
- Clip mounting (specifications detailed in product datasheet)

Availability:
Samples and production quantities of the new resistor are available now, with lead times of 8 to 12 weeks.

To access the product datasheet on the Vishay Website, go to http://www.vishay.com/ppg?50071 (LTO 150)

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