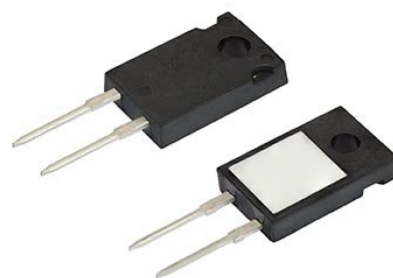


Designed for Direct Mounting on a Heatsink, AEC-Q200 Qualified, 50 W Thick Film Power Resistor Withstands High Temperatures, Humidity, Vibration, and Mechanical Stress to Deliver High Reliability for Automotive Applications

Product Benefits:

- AEC-Q200 qualified
- 50 W power rating
- Offered in compact TO-220 package
- Designed for direct mounting on a heatsink
- Broad range of resistance values from 0.010 Ω to 450 k Ω , with tolerances down to $\pm 1\%$
- Non-inductive
- High dielectric strength of 1500 Vrms
- Limiting element voltage of 500 V
- RoHS-compliant



Market Applications:

- Precharge or discharge resistor for on-board chargers, battery management systems (BMS), and motor controls for electric vehicles (EV), hybrid electric vehicles (HEV), and plugged hybrid electric vehicles (PHEV)

The News:

To meet the growing demand for high performance electronic components in next-generation automotive applications, Vishay Intertechnology introduces a new AEC-Q200 qualified, 50 W thick film power resistor in a compact TO-220 package for direct mounting on a heatsink.

- Engineered to ensure exceptional reliability and durability in even the most extreme automotive environments, the Vishay Sfernice LTA 50 withstands high humidity conditions and temperatures to +175 °C, while providing a high tolerance against vibration and electrical stress
 - This guarantees consistent performance in safety-critical applications

The Key Specifications:

- Rated power: 50 W at +50 °C case temperature
- Package: TO-220
- Temperature range: -55 °C to +175 °C
- Resistance range: 0.010 Ω to 450 k Ω
- Tolerances: $\pm 1\%$, $\pm 2\%$, $\pm 5\%$, and $\pm 10\%$
- Dielectric strength: 1500 Vrms
- Limiting element voltage: 500 V

Availability:



NEW PRODUCT INFORMATION

Product Group: Vishay Sfernice, Thick Film / October 2025



Samples and production quantities of the LTA 50 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?50086> (LTA 50)

Contact Information:

THE AMERICAS

Edgardo Menendez
edgardo.menendez@vishay.com

EUROPE

Emmanuel Tarot
emmanuel.tarot@vishay.com

ASIA/PACIFIC

Kevin Guo
kevin.guo@vishay.com

Darin Tomita
darin.tomita@vishay.com