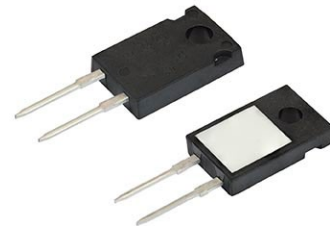


AEC-Q200 Qualified, 30 W Thick Film Power Resistor Offers a 500 V Operating Voltage and Strong Overload Capability, Withstands High Temperatures, Humidity, Vibration, and Mechanical Stress to Deliver High Reliability for Automotive Applications

Product Benefits:

- AEC-Q200 qualified
- Power rating of 30 W at 50 °C case temperature, heatsink mounted
- Compact TO-220 package mounts directly on a heatsink
- High 500 V operating voltage
- Strong overload capability (1.5x Pr for 5 s)
- Broad range of resistance values from 0.010 Ω to 450 k Ω
- Tolerances down to $\pm 1\%$
- RoHS-compliant
- Non-inductive design
- High dielectric strength of 1500 Vrms



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 plug-in 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, 30 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 LTA 30 withstands high humidity conditions and temperatures to +125 °C, while providing a high tolerance against vibration and electrical stress
- The resistor combines its high operating voltage with a strong overload capability to ensure stability under transients and high voltage conditions. Together, these characteristics guarantee consistent performance in safety-critical applications

The Key Specifications:

- Package: TO-220
- Rated power: 30 W
- Operating temperature range: -55 °C to +125 °C
- Operating voltage: 500 V
- Resistance range: 0.010 Ω to 450 k Ω
- Tolerance: $\pm 1\%$, $\pm 2\%$, $\pm 5\%$, and $\pm 10\%$
- Dielectric strength: 1500 Vrms



NEW PRODUCT INFORMATION

Product Group: Vishay Sfernice, Thick Film / November 2025



Availability:

Samples and production quantities of the LTA 30 are available now, with lead times of four to six weeks.

To access the product datasheet on the Vishay Website, go to
<http://www.vishay.com/ppg?50085> (LTA 30)

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