

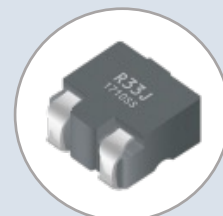
New Product Introduction

Large Current Type Power Inductors for Automotive

Panasonic's Newest AEC-Q200 Compliant Surface Mount Automotive Power Inductors with High Rated Current for Enhanced Performance Suitable for Automotive ECUs

Panasonic, a worldwide leader in Inductor Products, announces the expansion of the **Large Current Type Series of Power Inductors for Automotive**. These new Inductors provide exceptional large current support, high heat resistance, and high vibration resistance. At 17.2x15.10.5mm, these surface mount Power Inductor are part of the industry's smallest class of SMT Inductors and meets the market demands for smaller automotive ECU's (Electronic Control Unit) enabling them to be directly mounted on engines while achieving excellent heat and vibration resistance.

These compact and highly reliable surface mount **Large Current Type Power Choke Coils for Automotive** improve the reliability of power circuits while contributing to the reduction of environmental impact by saving space in power circuit mounting areas. They offer large current support from 30 A to 83 A, DC current which causes a temperature rise of 40K. Parts are soldered by reflow on multilayer PWB with high heat dissipation performance. Note: Heat radiation constant is approx. 13.8 K/W measured. These Power Inductor provides high heat resistance of 160°C/2000 hours and vibration resistance of 5 Hz to 2 kHz/30 G, making it compatible with mechatronics.



Features and Benefits

- Small Size: Width 15.6 mm x Depth 17.2 mm x Height 10.5 mm
- Heat Resistance: 160°C/2000 hours
- Vibration Resistance: 5 Hz to 2 kHz/30 G
- No Internal Joint – Direct Lead Terminal
- Excellent Inductance Stability Over Broad Temperature Ranges
- Compact SMD, Ferrite type comparison Up to 40% Smaller
- Low DCR and High Reliability Due to Coil Lead Direct Output Structure
- High Vibration Resistance by Fixing 4-point Terminals
- Achieves High Heat Dissipation by an Integrated Structure with a Unique Low-loss Metallic Magnetic Material
- AEC-Q200 and RoHS Compliant

Industries

- Automotive
- Transportation
- Industrial

Applications

- Filter DC/DC Converters for Various Automotive Applications:
 - ABS, EPS, Fan, Pump, and More
- High-performance Automotive ECU Power Circuits