

Vehicle Specification Inductance AEC-Q200 Certification

Car gauge inductors, which may be unfamiliar to many friends, are generally referred to as car gauge stacked chip inductors, or car grade inductors

Inductance, on-board inductance, etc. Of course, there are other special types of automotive grade inductors, such as automotive grade power inductors, automotive grade high-frequency inductors, automotive grade magnetic beads, etc,

Automotive electronic devices have higher requirements for the seismic resistance, high temperature resistance, and high humidity resistance of SMD inductors and magnetic beads due to their high working environment requirements

Currently, the inductance used in on-board equipment generally meets the AEC-Q200 technical standard.

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What is AEC-Q200 certification?

At present, AEC (Automotive Electronics Commission) is the standard for parts qualification and Quality management system in the automotive industry, and it is aimed at the design of passive components

For [AEC-Q200], it specifies the product quality and reliability that passive parts must achieve.

AEC-Q200 is a product standard for passive components used in automobiles. There are more stringent circuit conditions for overvoltage protection in automotive electronics,

Therefore, manufacturers are generally required to pass ISO/TS16949 quality system certification, and related discrete devices are required to pass AEC-Q101 certification, with passive components

The requirement for components to pass AEC-Q200 certification is a very strict certification standard.

Vehicle Specification Inductance AEC-Q200 Certification Qualification

AEC-Q200 Inspection Items and Methods for Vehicle Gauge Inductance

1. Electrical testing before and after stress testing: user specifications;
2. High temperature storage: MIL-STD-202 Method 108;
3. Temperature cycling: JES D22 Method JA-104;
4. High humidity: MIL-STD-202 Method 103;
5. Working life: MIL-PRF-27;
6. Appearance: MIL-STD-883 Method 2009;
7. Size: JESD22 Method JB-100;
8. Terminal strength (pin): MIL-STD-202 Method 211;
9. Solvent resistance: MIL-STD-202 Method 215;
10. Mechanical impact: MIL-STD-202 Method 213;
11. Vibration: MIL-STD-202 Method; 204;

12. Welding heat resistance: MIL-STD-202 Method 210;
13. ESD electrostatic discharge: AEC-Q200-002 Or ISO/DIS10605;
14. Weldability: J-STD-002;
15. Electrical characteristics: user specifications;
16. Flammability: UL-94;
17. Plate bending: AEC-Q200-005;
18. Terminal strength (SMD): AEC-Q200-006.