

Global Automotive Grade Resistor Market Research Report 2026(Status and Outlook)

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Abstracts

Automotive-grade resistors are resistor devices that have been strictly certified by AEC-Q200, an automotive-grade quality certification standard specifically designed for passive components. The reliability test items in this certification system are comprehensive and rigorous, covering life tests, temperature cycle tests, high humidity environment tests, high temperature storage tests, high temperature operation tests, and humidity resistance tests to ensure that resistor devices can maintain stable performance in extreme and changing automotive environments. Since automotive fuel and gasoline usually contain sulfur, these sulfur elements may produce corrosive substances during combustion. Therefore, resistor pins (usually made of silver-palladium alloy) near high-temperature and chemically complex areas such as engines are often severely affected by corrosion. This corrosion causes non-conductive silver sulfide crystals to form on the pin surface, which in turn causes resistor open circuit failures. This failure not only affects the normal operation of the automotive electrical system, but may also pose a serious threat to driving safety and endanger the lives of drivers and passengers. In order to address this problem, automotive resistors are usually treated with special anti-sulfurization. This treatment can effectively improve the corrosion resistance of resistor devices and reduce the formation of silver sulfide crystals, thereby significantly improving the reliability and service life of resistors. In the wave of the global automotive industry accelerating its transformation towards electrification and intelligence, automotive-grade resistors, as the "capillaries" of electronic systems, are ushering in unprecedented market opportunities. In 2024, the global automotive resistor market size has exceeded US\$500 million, of which SMD thick film resistors dominate with a share of 66%, followed by thin film resistors with a share of 21%. Behind this data, it not only reflects the differentiated positioning of different technical routes in automotive electronics, but also reveals the growth logic of the future market-high precision, high reliability, and high power density will become

core competitive factors. 1. Different resistors have different technical characteristics, and their application fields also have certain differences. 1) Thick film resistors: low cost, high voltage resistance (up to hundreds of volts), high power density (1W-3W), but relatively low accuracy (±1%-5%). Core applications: body electronics (such as LED lighting drive, power management), traditional power systems (such as engine control unit ECU) and other cost-sensitive and high-power requirements. 2) Thin film resistors: high precision (±0.1%-0.5%), low temperature coefficient (TCR) (below ±25ppm/°C), but low power density (usually

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