

Global Automotive Grade Thick Film Chip Resistors Market Growth 2026-2032

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Abstracts

The global Automotive Grade Thick Film Chip Resistors market size is predicted to grow from US\$ 418 million in 2025 to US\$ 650 million in 2032; it is expected to grow at a CAGR of 6.5% from 2026 to 2032.

Automotive grade thick film chip resistors refer to fixed chip resistors made by screen-printing thick-film resistor paste onto a ceramic substrate (commonly Al₂O₃, etc.), sintering it to form a resistive film layer, and then combining it with terminal electrodes and a protective coating. They meet automotive-grade reliability requirements such as AEC-Q200. Their core components consist of a thick-film resistor paste system (RuO₄, etc.), substrate and sintering process, terminal electrodes and plating (Ni/Sn, etc.), protective layer (glass glaze/resin coating), and a rating and testing system (resistance, TCR, noise, withstand voltage). They are used for power supply voltage division, sampling and biasing, current limiting, termination matching, and signal conditioning. The global market price for automotive-grade thick-film chip resistors is \$250 per thousand units, with sales of approximately 1.71 billion units and a global production capacity of 1.85 billion units. The industry profit margin is 28%.

Global Regional Market Landscape

Europe: Mature automotive-grade system, emphasizing quality systems and PPAP, rigorous reliability verification, high proportion of high-value-added models; North America: Strong demand from electrification and ADAS, preference for stable supply and long-cycle consistency, emphasizing pulse resistance and high-temperature reliability; Asia Pacific: Fastest growth, China, Japan, and South Korea are rapidly expanding driven by the concentrated development of the new energy vehicle and electronics supply chains, the focus of competition is 'speed of adoption + cost +

automotive-grade certification capabilities'; Emerging Markets: Mainly driven by expansion in vehicle and component manufacturing, with steady growth in demand for automotive-grade resistors as the penetration of automotive electronics increases.

Upstream and Downstream Industry Chain

Upstream: Ceramic substrates, thick film resistor pastes and glass glazes, silver/nickel/tin electrode materials, electroplating chemicals and packaging materials, automated printing and sintering equipment, sorting and testing equipment, and reliability laboratories. Downstream Typical Customers: Tier 1 electronics (ECU/domain controller/BMS), power and power module manufacturers, sensor and actuator manufacturers, on-board charging and DC-DC converters, automotive lighting and body control, and OEM electronic architecture teams.

Real-world procurement logic changes and key pain points:

Thermal drift causes sampling errors and calibration deviations; damp heat and ion migration cause resistance drift; sulfurized environments lead to terminal electrode failure; pulse/surge causes open circuits; batch fluctuations result in production retesting and rework; opaque change management triggers customer recertification. Evaluation focus shifts to: AEC-Q200 data package integrity, TCR and long-term drift, sulfurization and damp heat resistance (85/85), pulse/surge resistance, rated power and derating curves, batch consistency and SPC, PPAP/PCN change mechanisms, and traceable barcodes and failure analysis support.

Technological Trends and Innovations

1) High Reliability and High Temperature Range: Increased applications of Grade 0 (-55~150?) resistors, with upgrades to materials and terminal electrode systems to reduce drift and failure; 2) Sulfurization Resistance and Surge Resistance Enhancement: For power domains and impact scenarios such as automotive lights/relays, anti-sulfurization structures and stronger protective layers, terminal caps, and thickened electrodes are adopted to improve surge resistance; 3) Miniaturization and High Power in Parallel: With the trend towards high-density board layouts in controllers, the usage of 0402/0201 resistors is increasing, while the demand for high-power chip resistors in sampling and power links is also growing.

Policy and Compliance

Automotive-grade thick-film chip resistors must meet the IATF 16949 quality system and AEC-Q200 reliability standards, and be equipped with PPAP, change management (PCN), batch traceability, and failure closed-loop systems. For overseas markets and global platform models, certification documentation, supply continuity, and audit pass rates are key to entering long-term supplier systems.

Future Outlook

As automotive electronic architecture becomes more centralized, higher voltage, and higher frequency and speed, the value of thick-film resistors will continue to shift forward: they determine sampling accuracy, signal stability, and power supply reliability, and also affect the vehicle's failure rate and after-sales costs. The winners of the future will often not be the lowest-priced suppliers, but rather the supply chain that can seamlessly integrate material systems, process consistency, reliability data packages, change management, and global delivery, enabling customers to experience 'less drift, fewer failures, faster implementation, and better auditing.'

LP Information, Inc. (LPI) ' newest research report, the "Automotive Grade Thick Film Chip Resistors Industry Forecast" looks at past sales and reviews total world Automotive Grade Thick Film Chip Resistors sales in 2025, providing a comprehensive analysis by region and market sector of projected Automotive Grade Thick Film Chip Resistors sales for 2026 through 2032. With Automotive Grade Thick Film Chip Resistors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Automotive Grade Thick Film Chip Resistors industry.

This Insight Report provides a comprehensive analysis of the global Automotive Grade Thick Film Chip Resistors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Automotive Grade Thick Film Chip Resistors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive Grade Thick Film Chip Resistors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Grade Thick Film Chip Resistors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of

bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Automotive Grade Thick Film Chip Resistors.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Grade Thick Film Chip Resistors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

≤0.05 W

0.1≤0.125 W

0.25≤0.5 W

≥1 W

Segmentation by Resistance Range:

Low Resistance (1 MΩ)

Segmentation by Operating Temperature:

≤40 °C to +125 °C

≤40 °C to +155 °C

≤55 °C to +155 °C

Segmentation by Application:

Passenger Car

Commercial Vehicles

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Panasonic

Yageo Group

Watts Electronics

Viking Tech

Coreworks

Stackpole

Ralec

ROHM

ABCO Electronics

Thunder Components

Fenghua Advanced Technology

Vishay

Bourns

Abiko Electronics

Walsin Technology Corporation

KOA Speer

TDK

Taiyo Yuden

Susumu

Liz Group

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Grade Thick Film Chip Resistors market?

What factors are driving Automotive Grade Thick Film Chip Resistors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Automotive Grade Thick Film Chip Resistors market opportunities vary by end market size?

How does Automotive Grade Thick Film Chip Resistors break out by Type, by Application?

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