

Global Automotive Grade Metal Foil Chip Resistor Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G47812970213EN.html>

Date: July 2026

Pages: 125

Price: US\$ 4,480.00 (Single User License)

ID: G47812970213EN

Abstracts

The global Automotive Grade Metal Foil Chip Resistor market size is expected to reach \$ 190 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

Automotive Grade Metal Foil Chip Resistors are high-reliability electronic components specifically designed to withstand the rigorous operating environments found in automobiles. Utilizing special alloy foils as their resistive elements, these components feature ultra-high precision, extremely low temperature drift, and exceptional vibration resistance, making them fundamental core components within modern automotive electronic control systems.

The upstream supply chain primarily comprises resistive alloy foils/metal sheets?such as manganese-copper, nickel-chromium, and copper-manganese-tin alloys?along with ceramic substrates, copper terminals, solder, protective resins, and packaging materials. Downstream applications focus primarily on automotive battery management systems, inverters, motor control units, on-board DC-DC converters, power modules, and charging systems. The core value proposition of these components lies in their milliohm-level resistance precision, control over long-term drift, thermal management design, pulse withstand capability, automotive-grade certification, and the ability to ensure long-term supply reliability for vehicle-wide electronic platforms.

In 2025, global sales volume for automotive-grade metal foil resistors is projected to reach approximately 270 million units. The global average market price is estimated at around \$0.45 per unit, with the gross margins for major industry manufacturers ranging from approximately 28% to 42%.

The demand for automotive-grade metal foil chip resistors is primarily driven by the increasing requirements for precision current sensing, stable feedback, and highly reliable sampling within new energy vehicle systems?specifically in areas such as battery management, onboard power supplies, motor control, thermal management actuators, chassis electronics, and intelligent driving systems. Compared to standard thick-film resistors, metal foil resistors offer distinct advantages in terms of low temperature coefficient, low noise, low inductance, long-term stability, and precision measurement capabilities. As 800V platforms, 48V systems, OBC/DC-DC converters, electric drive controls, and high-reliability automotive electronics continue to undergo upgrades, automotive-grade metal foil resistors are poised to benefit from the growing demand for high-precision performance and stringent automotive-grade certification.

This report studies the global Automotive Grade Metal Foil Chip Resistor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Grade Metal Foil Chip Resistor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Automotive Grade Metal Foil Chip Resistor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive Grade Metal Foil Chip Resistor total production and demand, 2021-2032, (Million Units)

Global Automotive Grade Metal Foil Chip Resistor total production value, 2021-2032, (USD Million)

Global Automotive Grade Metal Foil Chip Resistor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Automotive Grade Metal Foil Chip Resistor consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Automotive Grade Metal Foil Chip Resistor domestic production, consumption, key domestic manufacturers and share

Global Automotive Grade Metal Foil Chip Resistor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Automotive Grade Metal Foil Chip Resistor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Automotive Grade Metal Foil Chip Resistor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Automotive Grade Metal Foil Chip Resistor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include VPG Foil Resistors, Vishay, Susumu, Yageo, TA-I Technology, Bourns, Isabellenhütte, Littelfuse, Stackpole Electronics, Viking Tech, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Automotive Grade Metal Foil Chip Resistor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Automotive Grade Metal Foil Chip Resistor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Grade Metal Foil Chip Resistor Market, Segmentation by Type:

Size 1206

Size 2010

Size 2512

Other

Global Automotive Grade Metal Foil Chip Resistor Market, Segmentation by Terminal Structure:

Short Terminal Type

Wide Terminal Type

Others

Global Automotive Grade Metal Foil Chip Resistor Market, Segmentation by Power:

Low Power Type

Medium-to-High Power Type

Ultra-High Power Type

Global Automotive Grade Metal Foil Chip Resistor Market, Segmentation by Application:

Electric Vehicles

Hybrid Electric Vehicles

Other

Companies Profiled:

VPG Foil Resistors

Vishay

Susumu

Yageo

TA-I Technology

Bourns

Isabellenh?tte

Littelfuse

Stackpole Electronics

Viking Tech

Meritek

Key Questions Answered:

1. How big is the global Automotive Grade Metal Foil Chip Resistor market?
2. What is the demand of the global Automotive Grade Metal Foil Chip Resistor market?
3. What is the year over year growth of the global Automotive Grade Metal Foil Chip Resistor market?
4. What is the production and production value of the global Automotive Grade Metal Foil Chip Resistor market?
5. Who are the key producers in the global Automotive Grade Metal Foil Chip Resistor market?
6. What are the growth factors driving the market demand?

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