

# Global Automotive Current Sensing Precision Resistors Market Growth 2026-2032

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## Abstracts

The global Automotive Current Sensing Precision Resistors market size is predicted to grow from US\$ 343 million in 2025 to US\$ 686 million in 2032; it is expected to grow at a CAGR of 10.6% from 2026 to 2032.

Automotive Current-Sensing Precision Resistor is a high-accuracy resistor designed for use in automotive electronic systems to detect and measure current variations within circuits. This precision resistor maintains stable performance under extreme conditions, such as temperature and vibration, making it suitable for applications in battery management systems (BMS), electric drive systems, onboard chargers, and 48V electrical systems, providing precise current data to ensure system safety and stability. In applications involving new energy vehicles and high-voltage platforms, these resistors support higher current measurements and play a critical role in vehicle current monitoring and management.

Automotive Current Sensing Precision Resistors are becoming increasingly critical in electric vehicles (EVs), hybrid electric vehicles (HEVs), and advanced driver assistance systems (ADAS). These resistors play a fundamental role in battery management systems (BMS), on-board chargers (OBC), inverters, and motor control units by providing accurate current measurement, which is essential for safety, performance, and energy efficiency.

There are several types of precision resistors used in automotive applications, including thick film, metal plate types. Among these, metal plate resistors are favored for high-current applications such as EV BMS and inverters due to their excellent power handling, low temperature coefficient (TCR as low as  $\pm 15\text{ppm}/^\circ\text{C}$ ), and tight tolerance (down to 1m%). Thick film resistors remain prevalent in less demanding applications like

automotive lighting or infotainment systems due to their cost advantage.

The most significant demand driver comes from EV BMS modules, where accurate current sensing is required to monitor charge/discharge cycles, thermal management, and safety functions. Other growing application areas include OBCs, DC-DC converters, and radar/camera modules in ADAS systems. The shift toward 400V/800V high-voltage platforms and fast-charging infrastructure is further pushing the need for high-reliability, high-power precision resistors with low contact resistance and superior thermal stability.

Regionally, China leads the market due to its dominant EV production capacity and large-scale deployment of power electronics. Japanese manufacturers such as ROHM, KOA, and Panasonic maintain leadership in high-accuracy, automotive-grade components, while Korean suppliers focus on integration with domestic battery manufacturers like LG and Samsung SDI. In North America and Europe, the demand is growing steadily alongside the expansion of EV and ADAS systems.

In the future, the market is expected to trend toward ultra-low resistance, higher power-rated, AEC-Q200-qualified components, thinner packages, and innovative integrated current sensing solutions combining resistors with Hall effect sensors.

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

This Insight Report provides a comprehensive analysis of the global Automotive Current Sensing Precision 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 Current Sensing Precision Resistors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive Current Sensing Precision Resistors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Automotive Current Sensing Precision 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 Current Sensing Precision Resistors.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Current Sensing Precision Resistors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Thick Film Type

Metal Plate Type

Segmentation by Application:

Passenger Cars

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.

Rohm Semiconductor

YAGEO Corporation

Vishay

Cyntec

Isabellenh?tte

Viking Tech

KOA Corporation

Walsin Technology

Cbeureka

Ohmite

TT Electronics

Bourns

Susumu

Panasonic

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Automotive Current Sensing Precision Resistors market?

What factors are driving Automotive Current Sensing Precision Resistors market growth, globally and by region?

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

How do Automotive Current Sensing Precision Resistors market opportunities vary by end market size?

How does Automotive Current Sensing Precision Resistors break out by Type, by Application?

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