

Global Through Hole Current Sensing Resistor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Through Hole Current Sensing Resistor market size is expected to reach \$ 1138 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032).

In 2025, global Through Hole Current Sensing Resistor production reached approximately 296.87 M Units. The average price is approximately \$2.20. Through Hole Current Sensing Resistor is a low-resistance resistor that is mounted on a circuit board or base via a through-hole and is used to accurately measure current in a circuit.

Gross Profit Margin Levels

The gross profit margin of through-hole current sensing resistors exhibits a typical structure of 'strong material properties and significant differences in process and certification': On the one hand, low-resistance shunts are highly sensitive to alloy materials (such as manganese copper), copper terminals, welding/riveting, and structural heat dissipation; the consistency of raw materials and manufacturing directly determines the cost floor. On the other hand, products that can truly be locked in by system providers in the long term are often not 'a specific resistance value,' but rather a quality system characterized by low temperature drift, low inductance, batch consistency, predictable overload curves, and traceability. Therefore, the common profit stratification in the industry is as follows: general-purpose THT catalog components are closer to the logic of large-scale passive components (strong price competition, low to medium gross profit); 4-terminal/Kelvin and high-precision low-TCR series rely on process and measurement calibration capabilities, and their gross profit can reach a higher level; while base/busbar/high-current customized shunts, due to the involvement of structural components, assembly and testing calibration, delivery time, and certification thresholds, usually have stronger bargaining power, but at the same time bear the cost risks of copper price fluctuations and project-based delivery.

Industry Drivers

The core variable driving the growth in demand for through-hole current sensing resistors is the 'measurability, controllability, and protection' brought about by electrification and increased power density. In new energy vehicles and energy storage systems, BMS, OBC/DC-DC, and inverters continue to rely more heavily on current measurement, and shunts remain a sticky solution as a cost- and accuracy-balancing approach. On the industrial side, servo/frequency converters/robotics and high-reliability power supplies are driving higher power levels and more stringent thermal management, forcing low-resistance resistors to upgrade in terms of temperature drift, overload, and connection reliability. Meanwhile, reports generally attribute this market growth to a broader demand for accurate current measurement (automotive electrification, industrial automation, energy system upgrades, etc.), and consider through-hole/bolt-on types as one of the important application installation types. This report studies the global Through Hole Current Sensing Resistor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Through Hole Current Sensing 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 Through Hole Current Sensing Resistor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Through Hole Current Sensing Resistor total production and demand, 2021-2032, (Million Units)

Global Through Hole Current Sensing Resistor total production value, 2021-2032, (USD Million)

Global Through Hole Current Sensing Resistor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Through Hole Current Sensing Resistor consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Through Hole Current Sensing Resistor domestic production, consumption, key domestic manufacturers and share

Global Through Hole Current Sensing Resistor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Through Hole Current Sensing Resistor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Through Hole Current Sensing Resistor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Through Hole Current Sensing 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 YAGEO, Vishay, ROHM, Isabellenh?tte, KOA Speer, Ohmite, TT Electronics, Stackpole Electronics, TE Connectivity, Bourns, 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 Through Hole Current Sensing 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 Through Hole Current Sensing Resistor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Through Hole Current Sensing Resistor Market, Segmentation by Type:

Axial Lead Type

Radial Lead Type

Power Package

Global Through Hole Current Sensing Resistor Market, Segmentation by Core Materials:

Alloy Type

Thin Film Type

Thick Film Type

Global Through Hole Current Sensing Resistor Market, Segmentation by Power:

Covers Low-Power (<1w)

Medium-Power (1w-10w)

High-Power (>10w)

Global Through Hole Current Sensing Resistor Market, Segmentation by Application:

Automotive Electronics

Industrial Control

Consumer Electronics

Other

Companies Profiled:

YAGEO

Vishay

ROHM

Isabellenh?tte

KOA Speer

Ohmite

TT Electronics

Stackpole Electronics

TE Connectivity

Bourns

Isabellenh?tte

Vishay Precision Group

Caddock

Vitrohm

Miba

Danotherm

Sifam Tinsley

Key Questions Answered:

1. How big is the global Through Hole Current Sensing Resistor market?
2. What is the demand of the global Through Hole Current Sensing Resistor market?
3. What is the year over year growth of the global Through Hole Current Sensing Resistor market?
4. What is the production and production value of the global Through Hole Current Sensing Resistor market?
5. Who are the key producers in the global Through Hole Current Sensing Resistor

market?

6. What are the growth factors driving the market demand?

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