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Global Metal Alloy Current Sense Resistors for AI Servers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Metal Alloy Current Sense Resistors for AI Servers market size is expected to reach $ 372 million by 2032, rising at a market growth of 24.0% CAGR during the forecast period (2026-2032).

Alloy sampling resistors for AI servers are low-resistance, precision current-sensing resistors used in GPU/AI accelerator cards, CPU motherboards, power supplies, 48V/54V power architectures, DC-DC converters, hot-swappable power supplies, BBUs, and rack-mounted power systems. These products typically utilize metal alloy resistors, such as manganese-copper or nickel-copper, to measure current, monitor power, provide overcurrent protection, and manage loads by detecting the minute voltage drop across the resistor. Typical products feature low resistance values ranging from 0.1 to 100 m?, low TCR, high power density, high pulse capability, and 2-terminal or 4-terminal Kelvin configurations.

In 2025, global sales of alloy sampling resistors for AI servers reached 447.5 million units, with an average price of $168 per thousand units.

AI Servers Drive New High-Value Demand

Increased GPU power consumption has led to a rise in the number of VRMs, power modules, 48V architectures, power conversion components, and board-level current monitoring devices. Compared to standard PCs, AI servers not only require a greater number of sampling resistors but also tend to use products with low TCR, high power handling, and compact designs. Consequently, their contribution to the market is reflected more in value growth than in sheer unit volume growth.

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Report Scope

This report studies the global Metal Alloy Current Sense Resistors for AI Servers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Metal Alloy Current Sense Resistors for AI Servers 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 Metal Alloy Current Sense Resistors for AI Servers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Metal Alloy Current Sense Resistors for AI Servers total production and demand, 2021-2032, (Million Units)

Global Metal Alloy Current Sense Resistors for AI Servers total production value, 2021-2032, (USD Million)

Global Metal Alloy Current Sense Resistors for AI Servers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Metal Alloy Current Sense Resistors for AI Servers consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Metal Alloy Current Sense Resistors for AI Servers domestic production, consumption, key domestic manufacturers and share

Global Metal Alloy Current Sense Resistors for AI Servers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Metal Alloy Current Sense Resistors for AI Servers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

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Global Metal Alloy Current Sense Resistors for AI Servers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Metal Alloy Current Sense Resistors for AI Servers 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 Corporation, TA-I Technology Co., Ltd., Vishay Intertechnology, Inc., Cyntec Co., Ltd., Juneway Electronic Technology Co., Ltd., ROHM Co., Ltd., KOA Corporation, Bourns, Inc., TT Electronics plc, Susumu Co., Ltd., 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 Metal Alloy Current Sense Resistors for AI Servers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Million Units) and average price (USD/k Units) 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 Metal Alloy Current Sense Resistors for AI Servers Market, By Region:

United States

China

Europe

Japan

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South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Metal Alloy Current Sense Resistors for AI Servers Market, Segmentation by Type:

Metal Foil Current Sense Resistor

Metal Plate Current Sense Resistor

Metal Strip Current Sense Resistor

Welded Metal Element Current Sense Resistor

Global Metal Alloy Current Sense Resistors for AI Servers Market, Segmentation by Resistance Range:

Below 1 m?

1–5 m?

Above 5–20 m?

Above 20 m?

Global Metal Alloy Current Sense Resistors for AI Servers Market, Segmentation by Power Rating:

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Below 1 W

1–3 W

Above 3–5 W

Above 5 W

Global Metal Alloy Current Sense Resistors for AI Servers Market, Segmentation by Application:

GPU and AI Accelerator Power Modules

CPU and Mainboard VRM

AI Server Power Supply Units

48V/54V Power Shelf and Power Bus

DC-DC Converters and Hot-Swap Circuits

Battery Backup Units and Rack-Level Backup Power

Companies Profiled:

YAGEO Corporation

TA-I Technology Co., Ltd.

Vishay Intertechnology, Inc.

Cyntec Co., Ltd.

Juneway Electronic Technology Co., Ltd.

ROHM Co., Ltd.

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KOA Corporation

Bourns, Inc.

TT Electronics plc

Susumu Co., Ltd.

Isabellenhütte Heusler GmbH & Co. KG

Stackpole Electronics, Inc.

Ralec Electronic Corporation

Viking Tech Corporation

Ever Ohms Technology Co., Ltd.

Token Electronics Industry Co., Ltd.

Vishay Precision Group, Inc.

Ohmite Manufacturing Company

Guangdong Fenghua Advanced Technology (Holding) Co., Ltd.

PROSEMI Micro-electronic Technology Co., Ltd.

Key Questions Answered

1. How big is the global Metal Alloy Current Sense Resistors for AI Servers market?
2. What is the demand of the global Metal Alloy Current Sense Resistors for AI Servers market?
3. What is the year over year growth of the global Metal Alloy Current Sense Resistors for AI Servers market?
4. What is the total value of the global Metal Alloy Current Sense Resistors for AI Servers market?

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5. Who are the Major Players in the global Metal Alloy Current Sense Resistors for AI Servers market?
6. What are the growth factors driving the market demand?

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