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Global Metal Alloy Current Sense Resistors for AI Servers Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Metal Alloy Current Sense Resistors for AI Servers market size was valued at US$ 77.36 million in 2025 and is forecast to a readjusted size of US$ 372 million by 2032 with a CAGR of 24.0% during review period.

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

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reflected more in value growth than in sheer unit volume growth.

Report Scope

This report is a detailed and comprehensive analysis for global Metal Alloy Current Sense Resistors for AI Servers market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Metal Alloy Current Sense Resistors for AI Servers market size and forecasts, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (USD/k Units), 2021-2032

Global Metal Alloy Current Sense Resistors for AI Servers market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (USD/k Units), 2021-2032

Global Metal Alloy Current Sense Resistors for AI Servers market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (USD/k Units), 2021-2032

Global Metal Alloy Current Sense Resistors for AI Servers market shares of main players, shipments in revenue ($ Million), sales quantity (Million Units), and ASP (USD/k Units), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Metal Alloy Current Sense Resistors for AI Servers

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To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Metal Alloy Current Sense Resistors for AI Servers market based on the following parameters - company overview, sales quantity, revenue, 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.

Metal Alloy Current Sense Resistors for AI Servers market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Type

Metal Foil Current Sense Resistor

Metal Plate Current Sense Resistor

Metal Strip Current Sense Resistor

Welded Metal Element Current Sense Resistor

Market segment by Resistance Range

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Below 1 m?

1–5 m?

Above 5–20 m?

Above 20 m?

Market segment by Power Rating

Below 1 W

1–3 W

Above 3–5 W

Above 5 W

Market segment 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

Major players covered

YAGEO Corporation

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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.

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.

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Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Metal Alloy Current Sense Resistors for AI Servers product scope, market overview, market estimation caveats and base year.
Chapter 2, to profile the top manufacturers of Metal Alloy Current Sense Resistors for AI Servers, with price, sales quantity, revenue, and global market share of Metal Alloy Current Sense Resistors for AI Servers from 2021 to 2026.
Chapter 3, the Metal Alloy Current Sense Resistors for AI Servers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.
Chapter 4, the Metal Alloy Current Sense Resistors for AI Servers breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.
Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.
Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Metal Alloy Current Sense Resistors for AI Servers market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.
Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.
Chapter 13, the key raw materials and key suppliers, and industry chain of Metal Alloy Current Sense Resistors for AI Servers.
Chapter 14 and 15, to describe Metal Alloy Current Sense Resistors for AI Servers

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sales channel, distributors, customers, research findings and conclusion.

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