

Global Metal Alloy Current Sense Resistors for AI Servers Market Growth 2026-2032

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Abstracts

The global Metal Alloy Current Sense Resistors for AI Servers market size is predicted to grow from US\$ 73.54 million in 2025 to US\$ 380 million in 2032; it is expected to grow at a CAGR of 25.5% from 2026 to 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 Ω , 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.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Metal Alloy Current Sense Resistors for AI Servers 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 Metal Alloy Current Sense Resistors for AI Servers portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Metal Alloy Current Sense Resistors for AI Servers market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Metal Alloy Current Sense Resistors for AI Servers 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 Metal Alloy Current Sense Resistors for AI Servers.

This report presents a comprehensive overview, market shares, and growth opportunities of Metal Alloy Current Sense Resistors for AI Servers market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Metal Foil Current Sense Resistor

Metal Plate Current Sense Resistor

Metal Strip Current Sense Resistor

Welded Metal Element Current Sense Resistor

Segmentation by Resistance Range:

Below 1 m?

1–5 m?

Above 5–20 m?

Above 20 m?

Segmentation by Power Rating:

Below 1 W

1–3 W

Above 3–5 W

Above 5 W

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

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.

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.

Isabellenh?tte 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 Addressed in this Report

What is the 10-year outlook for the global Metal Alloy Current Sense Resistors for AI Servers market?

What factors are driving Metal Alloy Current Sense Resistors for AI Servers market growth, globally and by region?

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

How do Metal Alloy Current Sense Resistors for AI Servers market opportunities vary by end market size?

How does Metal Alloy Current Sense Resistors for AI Servers break out by

Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

2.1.1 Global Metal Alloy Current Sense Resistors for AI Servers Annual Sales 2021-2032

2.1.2 World Current & Future Analysis for Metal Alloy Current Sense Resistors for AI Servers by Geographic Region, 2021, 2025 & 2032

2.1.3 World Current & Future Analysis for Metal Alloy Current Sense Resistors for AI Servers by Country/Region, 2021, 2025 & 2032

2.2 Metal Alloy Current Sense Resistors for AI Servers Segment by Type

2.2.1 Metal Foil Current Sense Resistor

2.2.2 Metal Plate Current Sense Resistor

2.2.3 Metal Strip Current Sense Resistor

2.2.4 Welded Metal Element Current Sense Resistor

2.2.5 Metal Alloy Current Sense Resistors for AI Servers Sales by Type

2.2.5.1 Global Metal Alloy Current Sense Resistors for AI Servers Sales Market Share by Type (2021-2026)

2.2.5.2 Global Metal Alloy Current Sense Resistors for AI Servers Revenue and Market Share by Type (2021-2026)

2.2.5.3 Global Metal Alloy Current Sense Resistors for AI Servers Sale Price by Type (2021-2026)

2.3 Metal Alloy Current Sense Resistors for AI Servers Segment by Resistance Range

2.3.1 Below 1 m?

2.3.2 1–5 m?

2.3.3 Above 5–20 m?

2.3.4 Above 20 m?

2.3.5 Metal Alloy Current Sense Resistors for AI Servers Sales by Resistance Range
2.3.5.1 Global Metal Alloy Current Sense Resistors for AI Servers Sales Market Share by Resistance Range (2021-2026)

2.3.5.2 Global Metal Alloy Current Sense Resistors for AI Servers Revenue and Market Share by Resistance Range (2021-2026)

2.3.5.3 Global Metal Alloy Current Sense Resistors for AI Servers Sale Price by Resistance Range (2021-2026)

2.4 Metal Alloy Current Sense Resistors for AI Servers Segment by Power Rating

2.4.1 Below 1 W

2.4.2 1–3 W

2.4.3 Above 3–5 W

2.4.4 Above 5 W

2.4.5 Metal Alloy Current Sense Resistors for AI Servers Sales by Power Rating

2.4.5.1 Global Metal Alloy Current Sense Resistors for AI Servers Sales Market Share by Power Rating (2021-2026)

2.4.5.2 Global Metal Alloy Current Sense Resistors for AI Servers Revenue and Market Share by Power Rating (2021-2026)

2.4.5.3 Global Metal Alloy Current Sense Resistors for AI Servers Sale Price by Power Rating (2021-2026)

2.5 Metal Alloy Current Sense Resistors for AI Servers Segment by Application

2.5.1 GPU and AI Accelerator Power Modules

2.5.2 CPU and Mainboard VRM

2.5.3 AI Server Power Supply Units

2.5.4 48V/54V Power Shelf and Power Bus

2.5.5 DC-DC Converters and Hot-Swap Circuits

2.5.6 Battery Backup Units and Rack-Level Backup Power

2.5.7 Metal Alloy Current Sense Resistors for AI Servers Sales by Application

2.5.7.1 Global Metal Alloy Current Sense Resistors for AI Servers Sale Market Share by Application (2021-2026)

2.5.7.2 Global Metal Alloy Current Sense Resistors for AI Servers Revenue and Market Share by Application (2021-2026)

2.5.7.3 Global Metal Alloy Current Sense Resistors for AI Servers Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Metal Alloy Current Sense Resistors for AI Servers Breakdown Data by Company

3.1.1 Global Metal Alloy Current Sense Resistors for AI Servers Annual Sales by

Company (2021-2026)

3.1.2 Global Metal Alloy Current Sense Resistors for AI Servers Sales Market Share by Company (2021-2026)

3.2 Global Metal Alloy Current Sense Resistors for AI Servers Annual Revenue by Company (2021-2026)

3.2.1 Global Metal Alloy Current Sense Resistors for AI Servers Revenue by Company (2021-2026)

3.2.2 Global Metal Alloy Current Sense Resistors for AI Servers Revenue Market Share by Company (2021-2026)

3.3 Global Metal Alloy Current Sense Resistors for AI Servers Sale Price by Company

3.4 Key Manufacturers Metal Alloy Current Sense Resistors for AI Servers Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Metal Alloy Current Sense Resistors for AI Servers Product Location Distribution

3.4.2 Players Metal Alloy Current Sense Resistors for AI Servers Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR METAL ALLOY CURRENT SENSE RESISTORS FOR AI SERVERS BY GEOGRAPHIC REGION

4.1 World Historic Metal Alloy Current Sense Resistors for AI Servers Market Size by Geographic Region (2021-2026)

4.1.1 Global Metal Alloy Current Sense Resistors for AI Servers Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Metal Alloy Current Sense Resistors for AI Servers Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Metal Alloy Current Sense Resistors for AI Servers Market Size by Country/Region (2021-2026)

4.2.1 Global Metal Alloy Current Sense Resistors for AI Servers Annual Sales by Country/Region (2021-2026)

4.2.2 Global Metal Alloy Current Sense Resistors for AI Servers Annual Revenue by Country/Region (2021-2026)

4.3 Americas Metal Alloy Current Sense Resistors for AI Servers Sales Growth

4.4 APAC Metal Alloy Current Sense Resistors for AI Servers Sales Growth

4.5 Europe Metal Alloy Current Sense Resistors for AI Servers Sales Growth

4.6 Middle East & Africa Metal Alloy Current Sense Resistors for AI Servers Sales Growth

5 AMERICAS

5.1 Americas Metal Alloy Current Sense Resistors for AI Servers Sales by Country

5.1.1 Americas Metal Alloy Current Sense Resistors for AI Servers Sales by Country (2021-2026)

5.1.2 Americas Metal Alloy Current Sense Resistors for AI Servers Revenue by Country (2021-2026)

5.2 Americas Metal Alloy Current Sense Resistors for AI Servers Sales by Type (2021-2026)

5.3 Americas Metal Alloy Current Sense Resistors for AI Servers Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Metal Alloy Current Sense Resistors for AI Servers Sales by Region

6.1.1 APAC Metal Alloy Current Sense Resistors for AI Servers Sales by Region (2021-2026)

6.1.2 APAC Metal Alloy Current Sense Resistors for AI Servers Revenue by Region (2021-2026)

6.2 APAC Metal Alloy Current Sense Resistors for AI Servers Sales by Type (2021-2026)

6.3 APAC Metal Alloy Current Sense Resistors for AI Servers Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Metal Alloy Current Sense Resistors for AI Servers by Country

7.1.1 Europe Metal Alloy Current Sense Resistors for AI Servers Sales by Country (2021-2026)

7.1.2 Europe Metal Alloy Current Sense Resistors for AI Servers Revenue by Country (2021-2026)

7.2 Europe Metal Alloy Current Sense Resistors for AI Servers Sales by Type (2021-2026)

7.3 Europe Metal Alloy Current Sense Resistors for AI Servers Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Metal Alloy Current Sense Resistors for AI Servers by Country

8.1.1 Middle East & Africa Metal Alloy Current Sense Resistors for AI Servers Sales by Country (2021-2026)

8.1.2 Middle East & Africa Metal Alloy Current Sense Resistors for AI Servers Revenue by Country (2021-2026)

8.2 Middle East & Africa Metal Alloy Current Sense Resistors for AI Servers Sales by Type (2021-2026)

8.3 Middle East & Africa Metal Alloy Current Sense Resistors for AI Servers Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Metal Alloy Current Sense Resistors for AI Servers

10.3 Manufacturing Process Analysis of Metal Alloy Current Sense Resistors for AI Servers

10.4 Industry Chain Structure of Metal Alloy Current Sense Resistors for AI Servers

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Metal Alloy Current Sense Resistors for AI Servers Distributors

11.3 Metal Alloy Current Sense Resistors for AI Servers Customer

12 WORLD FORECAST REVIEW FOR METAL ALLOY CURRENT SENSE RESISTORS FOR AI SERVERS BY GEOGRAPHIC REGION

12.1 Global Metal Alloy Current Sense Resistors for AI Servers Market Size Forecast by Region

12.1.1 Global Metal Alloy Current Sense Resistors for AI Servers Forecast by Region (2027-2032)

12.1.2 Global Metal Alloy Current Sense Resistors for AI Servers Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Metal Alloy Current Sense Resistors for AI Servers Forecast by Type (2027-2032)

12.7 Global Metal Alloy Current Sense Resistors for AI Servers Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 YAGEO Corporation

13.1.1 YAGEO Corporation Company Information

- 13.1.2 YAGEO Corporation Metal Alloy Current Sense Resistors for AI Servers
Product Portfolios and Specifications
- 13.1.3 YAGEO Corporation Metal Alloy Current Sense Resistors for AI Servers Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.1.4 YAGEO Corporation Main Business Overview
- 13.1.5 YAGEO Corporation Latest Developments
- 13.2 TA-I Technology Co., Ltd.
 - 13.2.1 TA-I Technology Co., Ltd. Company Information
 - 13.2.2 TA-I Technology Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers
Product Portfolios and Specifications
 - 13.2.3 TA-I Technology Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 TA-I Technology Co., Ltd. Main Business Overview
 - 13.2.5 TA-I Technology Co., Ltd. Latest Developments
- 13.3 Vishay Intertechnology, Inc.
 - 13.3.1 Vishay Intertechnology, Inc. Company Information
 - 13.3.2 Vishay Intertechnology, Inc. Metal Alloy Current Sense Resistors for AI Servers
Product Portfolios and Specifications
 - 13.3.3 Vishay Intertechnology, Inc. Metal Alloy Current Sense Resistors for AI Servers Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 Vishay Intertechnology, Inc. Main Business Overview
 - 13.3.5 Vishay Intertechnology, Inc. Latest Developments
- 13.4 Cyntec Co., Ltd.
 - 13.4.1 Cyntec Co., Ltd. Company Information
 - 13.4.2 Cyntec Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications
 - 13.4.3 Cyntec Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Cyntec Co., Ltd. Main Business Overview
 - 13.4.5 Cyntec Co., Ltd. Latest Developments
- 13.5 Juneway Electronic Technology Co., Ltd.
 - 13.5.1 Juneway Electronic Technology Co., Ltd. Company Information
 - 13.5.2 Juneway Electronic Technology Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications
 - 13.5.3 Juneway Electronic Technology Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Juneway Electronic Technology Co., Ltd. Main Business Overview
 - 13.5.5 Juneway Electronic Technology Co., Ltd. Latest Developments
- 13.6 ROHM Co., Ltd.

- 13.6.1 ROHM Co., Ltd. Company Information
- 13.6.2 ROHM Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications
- 13.6.3 ROHM Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.6.4 ROHM Co., Ltd. Main Business Overview
- 13.6.5 ROHM Co., Ltd. Latest Developments
- 13.7 KOA Corporation
- 13.7.1 KOA Corporation Company Information
- 13.7.2 KOA Corporation Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications
- 13.7.3 KOA Corporation Metal Alloy Current Sense Resistors for AI Servers Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.7.4 KOA Corporation Main Business Overview
- 13.7.5 KOA Corporation Latest Developments
- 13.8 Bourns, Inc.
- 13.8.1 Bourns, Inc. Company Information
- 13.8.2 Bourns, Inc. Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications
- 13.8.3 Bourns, Inc. Metal Alloy Current Sense Resistors for AI Servers Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.8.4 Bourns, Inc. Main Business Overview
- 13.8.5 Bourns, Inc. Latest Developments
- 13.9 TT Electronics plc
- 13.9.1 TT Electronics plc Company Information
- 13.9.2 TT Electronics plc Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications
- 13.9.3 TT Electronics plc Metal Alloy Current Sense Resistors for AI Servers Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.9.4 TT Electronics plc Main Business Overview
- 13.9.5 TT Electronics plc Latest Developments
- 13.10 Susumu Co., Ltd.
- 13.10.1 Susumu Co., Ltd. Company Information
- 13.10.2 Susumu Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications
- 13.10.3 Susumu Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.10.4 Susumu Co., Ltd. Main Business Overview
- 13.10.5 Susumu Co., Ltd. Latest Developments

13.11 Isabellenhütte Heusler GmbH & Co. KG

13.11.1 Isabellenhütte Heusler GmbH & Co. KG Company Information

13.11.2 Isabellenhütte Heusler GmbH & Co. KG Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications

13.11.3 Isabellenhütte Heusler GmbH & Co. KG Metal Alloy Current Sense Resistors for AI Servers Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Isabellenhütte Heusler GmbH & Co. KG Main Business Overview

13.11.5 Isabellenhütte Heusler GmbH & Co. KG Latest Developments

13.12 Stackpole Electronics, Inc.

13.12.1 Stackpole Electronics, Inc. Company Information

13.12.2 Stackpole Electronics, Inc. Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications

13.12.3 Stackpole Electronics, Inc. Metal Alloy Current Sense Resistors for AI Servers Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Stackpole Electronics, Inc. Main Business Overview

13.12.5 Stackpole Electronics, Inc. Latest Developments

13.13 Ralec Electronic Corporation

13.13.1 Ralec Electronic Corporation Company Information

13.13.2 Ralec Electronic Corporation Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications

13.13.3 Ralec Electronic Corporation Metal Alloy Current Sense Resistors for AI Servers Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Ralec Electronic Corporation Main Business Overview

13.13.5 Ralec Electronic Corporation Latest Developments

13.14 Viking Tech Corporation

13.14.1 Viking Tech Corporation Company Information

13.14.2 Viking Tech Corporation Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications

13.14.3 Viking Tech Corporation Metal Alloy Current Sense Resistors for AI Servers Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Viking Tech Corporation Main Business Overview

13.14.5 Viking Tech Corporation Latest Developments

13.15 Ever Ohms Technology Co., Ltd.

13.15.1 Ever Ohms Technology Co., Ltd. Company Information

13.15.2 Ever Ohms Technology Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications

13.15.3 Ever Ohms Technology Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Ever Ohms Technology Co., Ltd. Main Business Overview

- 13.15.5 Ever Ohms Technology Co., Ltd. Latest Developments
- 13.16 Token Electronics Industry Co., Ltd.
 - 13.16.1 Token Electronics Industry Co., Ltd. Company Information
 - 13.16.2 Token Electronics Industry Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications
 - 13.16.3 Token Electronics Industry Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.16.4 Token Electronics Industry Co., Ltd. Main Business Overview
 - 13.16.5 Token Electronics Industry Co., Ltd. Latest Developments
- 13.17 Vishay Precision Group, Inc.
 - 13.17.1 Vishay Precision Group, Inc. Company Information
 - 13.17.2 Vishay Precision Group, Inc. Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications
 - 13.17.3 Vishay Precision Group, Inc. Metal Alloy Current Sense Resistors for AI Servers Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.17.4 Vishay Precision Group, Inc. Main Business Overview
 - 13.17.5 Vishay Precision Group, Inc. Latest Developments
- 13.18 Ohmite Manufacturing Company
 - 13.18.1 Ohmite Manufacturing Company Company Information
 - 13.18.2 Ohmite Manufacturing Company Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications
 - 13.18.3 Ohmite Manufacturing Company Metal Alloy Current Sense Resistors for AI Servers Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.18.4 Ohmite Manufacturing Company Main Business Overview
 - 13.18.5 Ohmite Manufacturing Company Latest Developments
- 13.19 Guangdong Fenghua Advanced Technology (Holding) Co., Ltd.
 - 13.19.1 Guangdong Fenghua Advanced Technology (Holding) Co., Ltd. Company Information
 - 13.19.2 Guangdong Fenghua Advanced Technology (Holding) Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications
 - 13.19.3 Guangdong Fenghua Advanced Technology (Holding) Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.19.4 Guangdong Fenghua Advanced Technology (Holding) Co., Ltd. Main Business Overview
 - 13.19.5 Guangdong Fenghua Advanced Technology (Holding) Co., Ltd. Latest Developments
- 13.20 PROSEMI Micro-electronic Technology Co., Ltd.
 - 13.20.1 PROSEMI Micro-electronic Technology Co., Ltd. Company Information

13.20.2 PROSEMI Micro-electronic Technology Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications

13.20.3 PROSEMI Micro-electronic Technology Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Sales, Revenue, Price and Gross Margin (2021-2026)

13.20.4 PROSEMI Micro-electronic Technology Co., Ltd. Main Business Overview

13.20.5 PROSEMI Micro-electronic Technology Co., Ltd. Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Metal Alloy Current Sense Resistors for AI Servers Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Metal Alloy Current Sense Resistors for AI Servers Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Metal Foil Current Sense Resistor

Table 4. Major Players of Metal Plate Current Sense Resistor

Table 5. Major Players of Metal Strip Current Sense Resistor

Table 6. Major Players of Welded Metal Element Current Sense Resistor

Table 7. Global Metal Alloy Current Sense Resistors for AI Servers Sales by Type (2021-2026) & (Million Units)

Table 8. Global Metal Alloy Current Sense Resistors for AI Servers Sales Market Share by Type (2021-2026)

Table 9. Global Metal Alloy Current Sense Resistors for AI Servers Revenue by Type (2021-2026) & (\$ million)

Table 10. Global Metal Alloy Current Sense Resistors for AI Servers Revenue Market Share by Type (2021-2026)

Table 11. Global Metal Alloy Current Sense Resistors for AI Servers Sale Price by Type (2021-2026) & (USD/k Units)

Table 12. Major Players of Below 1 m?

Table 13. Major Players of 1–5 m?

Table 14. Major Players of Above 5–20 m?

Table 15. Major Players of Above 20 m?

Table 16. Global Metal Alloy Current Sense Resistors for AI Servers Sales by Resistance Range (2021-2026) & (Million Units)

Table 17. Global Metal Alloy Current Sense Resistors for AI Servers Sales Market Share by Resistance Range (2021-2026)

Table 18. Global Metal Alloy Current Sense Resistors for AI Servers Revenue by Resistance Range (2021-2026) & (\$ million)

Table 19. Global Metal Alloy Current Sense Resistors for AI Servers Revenue Market Share by Resistance Range (2021-2026)

Table 20. Global Metal Alloy Current Sense Resistors for AI Servers Sale Price by Resistance Range (2021-2026) & (USD/k Units)

Table 21. Major Players of Below 1 W

Table 22. Major Players of 1–3 W

Table 23. Major Players of Above 3–5 W

Table 24. Major Players of Above 5 W

Table 25. Global Metal Alloy Current Sense Resistors for AI Servers Sales by Power Rating (2021-2026) & (Million Units)

Table 26. Global Metal Alloy Current Sense Resistors for AI Servers Sales Market Share by Power Rating (2021-2026)

Table 27. Global Metal Alloy Current Sense Resistors for AI Servers Revenue by Power Rating (2021-2026) & (\$ million)

Table 28. Global Metal Alloy Current Sense Resistors for AI Servers Revenue Market Share by Power Rating (2021-2026)

Table 29. Global Metal Alloy Current Sense Resistors for AI Servers Sale Price by Power Rating (2021-2026) & (USD/k Units)

Table 30. Global Metal Alloy Current Sense Resistors for AI Servers Sale by Application (2021-2026) & (Million Units)

Table 31. Global Metal Alloy Current Sense Resistors for AI Servers Sale Market Share by Application (2021-2026)

Table 32. Global Metal Alloy Current Sense Resistors for AI Servers Revenue by Application (2021-2026) & (\$ million)

Table 33. Global Metal Alloy Current Sense Resistors for AI Servers Revenue Market Share by Application (2021-2026)

Table 34. Global Metal Alloy Current Sense Resistors for AI Servers Sale Price by Application (2021-2026) & (USD/k Units)

Table 35. Global Metal Alloy Current Sense Resistors for AI Servers Sales by Company (2021-2026) & (Million Units)

Table 36. Global Metal Alloy Current Sense Resistors for AI Servers Sales Market Share by Company (2021-2026)

Table 37. Global Metal Alloy Current Sense Resistors for AI Servers Revenue by Company (2021-2026) & (\$ millions)

Table 38. Global Metal Alloy Current Sense Resistors for AI Servers Revenue Market Share by Company (2021-2026)

Table 39. Global Metal Alloy Current Sense Resistors for AI Servers Sale Price by Company (2021-2026) & (USD/k Units)

Table 40. Key Manufacturers Metal Alloy Current Sense Resistors for AI Servers Producing Area Distribution and Sales Area

Table 41. Players Metal Alloy Current Sense Resistors for AI Servers Products Offered

Table 42. Metal Alloy Current Sense Resistors for AI Servers Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 43. New Products and Potential Entrants

Table 44. Market M&A Activity & Strategy

Table 45. Global Metal Alloy Current Sense Resistors for AI Servers Sales by

Geographic Region (2021-2026) & (Million Units)

Table 46. Global Metal Alloy Current Sense Resistors for AI Servers Sales Market Share Geographic Region (2021-2026)

Table 47. Global Metal Alloy Current Sense Resistors for AI Servers Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 48. Global Metal Alloy Current Sense Resistors for AI Servers Revenue Market Share by Geographic Region (2021-2026)

Table 49. Global Metal Alloy Current Sense Resistors for AI Servers Sales by Country/Region (2021-2026) & (Million Units)

Table 50. Global Metal Alloy Current Sense Resistors for AI Servers Sales Market Share by Country/Region (2021-2026)

Table 51. Global Metal Alloy Current Sense Resistors for AI Servers Revenue by Country/Region (2021-2026) & (\$ millions)

Table 52. Global Metal Alloy Current Sense Resistors for AI Servers Revenue Market Share by Country/Region (2021-2026)

Table 53. Americas Metal Alloy Current Sense Resistors for AI Servers Sales by Country (2021-2026) & (Million Units)

Table 54. Americas Metal Alloy Current Sense Resistors for AI Servers Sales Market Share by Country (2021-2026)

Table 55. Americas Metal Alloy Current Sense Resistors for AI Servers Revenue by Country (2021-2026) & (\$ millions)

Table 56. Americas Metal Alloy Current Sense Resistors for AI Servers Sales by Type (2021-2026) & (Million Units)

Table 57. Americas Metal Alloy Current Sense Resistors for AI Servers Sales by Application (2021-2026) & (Million Units)

Table 58. APAC Metal Alloy Current Sense Resistors for AI Servers Sales by Region (2021-2026) & (Million Units)

Table 59. APAC Metal Alloy Current Sense Resistors for AI Servers Sales Market Share by Region (2021-2026)

Table 60. APAC Metal Alloy Current Sense Resistors for AI Servers Revenue by Region (2021-2026) & (\$ millions)

Table 61. APAC Metal Alloy Current Sense Resistors for AI Servers Sales by Type (2021-2026) & (Million Units)

Table 62. APAC Metal Alloy Current Sense Resistors for AI Servers Sales by Application (2021-2026) & (Million Units)

Table 63. Europe Metal Alloy Current Sense Resistors for AI Servers Sales by Country (2021-2026) & (Million Units)

Table 64. Europe Metal Alloy Current Sense Resistors for AI Servers Revenue by Country (2021-2026) & (\$ millions)

Table 65. Europe Metal Alloy Current Sense Resistors for AI Servers Sales by Type (2021-2026) & (Million Units)

Table 66. Europe Metal Alloy Current Sense Resistors for AI Servers Sales by Application (2021-2026) & (Million Units)

Table 67. Middle East & Africa Metal Alloy Current Sense Resistors for AI Servers Sales by Country (2021-2026) & (Million Units)

Table 68. Middle East & Africa Metal Alloy Current Sense Resistors for AI Servers Revenue Market Share by Country (2021-2026)

Table 69. Middle East & Africa Metal Alloy Current Sense Resistors for AI Servers Sales by Type (2021-2026) & (Million Units)

Table 70. Middle East & Africa Metal Alloy Current Sense Resistors for AI Servers Sales by Application (2021-2026) & (Million Units)

Table 71. Key Market Drivers & Growth Opportunities of Metal Alloy Current Sense Resistors for AI Servers

Table 72. Key Market Challenges & Risks of Metal Alloy Current Sense Resistors for AI Servers

Table 73. Key Industry Trends of Metal Alloy Current Sense Resistors for AI Servers

Table 74. Metal Alloy Current Sense Resistors for AI Servers Raw Material

Table 75. Key Suppliers of Raw Materials

Table 76. Metal Alloy Current Sense Resistors for AI Servers Distributors List

Table 77. Metal Alloy Current Sense Resistors for AI Servers Customer List

Table 78. Global Metal Alloy Current Sense Resistors for AI Servers Sales Forecast by Region (2027-2032) & (Million Units)

Table 79. Global Metal Alloy Current Sense Resistors for AI Servers Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 80. Americas Metal Alloy Current Sense Resistors for AI Servers Sales Forecast by Country (2027-2032) & (Million Units)

Table 81. Americas Metal Alloy Current Sense Resistors for AI Servers Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 82. APAC Metal Alloy Current Sense Resistors for AI Servers Sales Forecast by Region (2027-2032) & (Million Units)

Table 83. APAC Metal Alloy Current Sense Resistors for AI Servers Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 84. Europe Metal Alloy Current Sense Resistors for AI Servers Sales Forecast by Country (2027-2032) & (Million Units)

Table 85. Europe Metal Alloy Current Sense Resistors for AI Servers Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 86. Middle East & Africa Metal Alloy Current Sense Resistors for AI Servers Sales Forecast by Country (2027-2032) & (Million Units)

Table 87. Middle East & Africa Metal Alloy Current Sense Resistors for AI Servers Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 88. Global Metal Alloy Current Sense Resistors for AI Servers Sales Forecast by Type (2027-2032) & (Million Units)

Table 89. Global Metal Alloy Current Sense Resistors for AI Servers Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 90. Global Metal Alloy Current Sense Resistors for AI Servers Sales Forecast by Application (2027-2032) & (Million Units)

Table 91. Global Metal Alloy Current Sense Resistors for AI Servers Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 92. YAGEO Corporation Basic Information, Metal Alloy Current Sense Resistors for AI Servers Manufacturing Base, Sales Area and Its Competitors

Table 93. YAGEO Corporation Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications

Table 94. YAGEO Corporation Metal Alloy Current Sense Resistors for AI Servers Sales (Million Units), Revenue (\$ Million), Price (USD/k Units) and Gross Margin (2021-2026)

Table 95. YAGEO Corporation Main Business

Table 96. YAGEO Corporation Latest Developments

Table 97. TA-I Technology Co., Ltd. Basic Information, Metal Alloy Current Sense Resistors for AI Servers Manufacturing Base, Sales Area and Its Competitors

Table 98. TA-I Technology Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications

Table 99. TA-I Technology Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Sales (Million Units), Revenue (\$ Million), Price (USD/k Units) and Gross Margin (2021-2026)

Table 100. TA-I Technology Co., Ltd. Main Business

Table 101. TA-I Technology Co., Ltd. Latest Developments

Table 102. Vishay Intertechnology, Inc. Basic Information, Metal Alloy Current Sense Resistors for AI Servers Manufacturing Base, Sales Area and Its Competitors

Table 103. Vishay Intertechnology, Inc. Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications

Table 104. Vishay Intertechnology, Inc. Metal Alloy Current Sense Resistors for AI Servers Sales (Million Units), Revenue (\$ Million), Price (USD/k Units) and Gross Margin (2021-2026)

Table 105. Vishay Intertechnology, Inc. Main Business

Table 106. Vishay Intertechnology, Inc. Latest Developments

Table 107. Cynotec Co., Ltd. Basic Information, Metal Alloy Current Sense Resistors for AI Servers Manufacturing Base, Sales Area and Its Competitors

Table 108. Cyntec Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications

Table 109. Cyntec Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Sales (Million Units), Revenue (\$ Million), Price (USD/k Units) and Gross Margin (2021-2026)

Table 110. Cyntec Co., Ltd. Main Business

Table 111. Cyntec Co., Ltd. Latest Developments

Table 112. Juneway Electronic Technology Co., Ltd. Basic Information, Metal Alloy Current Sense Resistors for AI Servers Manufacturing Base, Sales Area and Its Competitors

Table 113. Juneway Electronic Technology Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications

Table 114. Juneway Electronic Technology Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Sales (Million Units), Revenue (\$ Million), Price (USD/k Units) and Gross Margin (2021-2026)

Table 115. Juneway Electronic Technology Co., Ltd. Main Business

Table 116. Juneway Electronic Technology Co., Ltd. Latest Developments

Table 117. ROHM Co., Ltd. Basic Information, Metal Alloy Current Sense Resistors for AI Servers Manufacturing Base, Sales Area and Its Competitors

Table 118. ROHM Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications

Table 119. ROHM Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Sales (Million Units), Revenue (\$ Million), Price (USD/k Units) and Gross Margin (2021-2026)

Table 120. ROHM Co., Ltd. Main Business

Table 121. ROHM Co., Ltd. Latest Developments

Table 122. KOA Corporation Basic Information, Metal Alloy Current Sense Resistors for AI Servers Manufacturing Base, Sales Area and Its Competitors

Table 123. KOA Corporation Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications

Table 124. KOA Corporation Metal Alloy Current Sense Resistors for AI Servers Sales (Million Units), Revenue (\$ Million), Price (USD/k Units) and Gross Margin (2021-2026)

Table 125. KOA Corporation Main Business

Table 126. KOA Corporation Latest Developments

Table 127. Bourns, Inc. Basic Information, Metal Alloy Current Sense Resistors for AI Servers Manufacturing Base, Sales Area and Its Competitors

Table 128. Bourns, Inc. Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications

Table 129. Bourns, Inc. Metal Alloy Current Sense Resistors for AI Servers Sales (Million Units), Revenue (\$ Million), Price (USD/k Units) and Gross Margin (2021-2026)

Table 130. Bourns, Inc. Main Business

Table 131. Bourns, Inc. Latest Developments

Table 132. TT Electronics plc Basic Information, Metal Alloy Current Sense Resistors for AI Servers Manufacturing Base, Sales Area and Its Competitors

Table 133. TT Electronics plc Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications

Table 134. TT Electronics plc Metal Alloy Current Sense Resistors for AI Servers Sales (Million Units), Revenue (\$ Million), Price (USD/k Units) and Gross Margin (2021-2026)

Table 135. TT Electronics plc Main Business

Table 136. TT Electronics plc Latest Developments

Table 137. Susumu Co., Ltd. Basic Information, Metal Alloy Current Sense Resistors for AI Servers Manufacturing Base, Sales Area and Its Competitors

Table 138. Susumu Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications

Table 139. Susumu Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Sales (Million Units), Revenue (\$ Million), Price (USD/k Units) and Gross Margin (2021-2026)

Table 140. Susumu Co., Ltd. Main Business

Table 141. Susumu Co., Ltd. Latest Developments

Table 142. Isabellenh?tte Heusler GmbH & Co. KG Basic Information, Metal Alloy Current Sense Resistors for AI Servers Manufacturing Base, Sales Area and Its Competitors

Table 143. Isabellenh?tte Heusler GmbH & Co. KG Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications

Table 144. Isabellenh?tte Heusler GmbH & Co. KG Metal Alloy Current Sense Resistors for AI Servers Sales (Million Units), Revenue (\$ Million), Price (USD/k Units) and Gross Margin (2021-2026)

Table 145. Isabellenh?tte Heusler GmbH & Co. KG Main Business

Table 146. Isabellenh?tte Heusler GmbH & Co. KG Latest Developments

Table 147. Stackpole Electronics, Inc. Basic Information, Metal Alloy Current Sense Resistors for AI Servers Manufacturing Base, Sales Area and Its Competitors

Table 148. Stackpole Electronics, Inc. Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications

Table 149. Stackpole Electronics, Inc. Metal Alloy Current Sense Resistors for AI Servers Sales (Million Units), Revenue (\$ Million), Price (USD/k Units) and Gross Margin (2021-2026)

Table 150. Stackpole Electronics, Inc. Main Business

Table 151. Stackpole Electronics, Inc. Latest Developments

Table 152. Ralec Electronic Corporation Basic Information, Metal Alloy Current Sense Resistors for AI Servers Manufacturing Base, Sales Area and Its Competitors

Table 153. Ralec Electronic Corporation Metal Alloy Current Sense Resistors for AI

Servers Product Portfolios and Specifications

Table 154. Ralec Electronic Corporation Metal Alloy Current Sense Resistors for AI Servers Sales (Million Units), Revenue (\$ Million), Price (USD/k Units) and Gross Margin (2021-2026)

Table 155. Ralec Electronic Corporation Main Business

Table 156. Ralec Electronic Corporation Latest Developments

Table 157. Viking Tech Corporation Basic Information, Metal Alloy Current Sense Resistors for AI Servers Manufacturing Base, Sales Area and Its Competitors

Table 158. Viking Tech Corporation Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications

Table 159. Viking Tech Corporation Metal Alloy Current Sense Resistors for AI Servers Sales (Million Units), Revenue (\$ Million), Price (USD/k Units) and Gross Margin (2021-2026)

Table 160. Viking Tech Corporation Main Business

Table 161. Viking Tech Corporation Latest Developments

Table 162. Ever Ohms Technology Co., Ltd. Basic Information, Metal Alloy Current Sense Resistors for AI Servers Manufacturing Base, Sales Area and Its Competitors

Table 163. Ever Ohms Technology Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications

Table 164. Ever Ohms Technology Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Sales (Million Units), Revenue (\$ Million), Price (USD/k Units) and Gross Margin (2021-2026)

Table 165. Ever Ohms Technology Co., Ltd. Main Business

Table 166. Ever Ohms Technology Co., Ltd. Latest Developments

Table 167. Token Electronics Industry Co., Ltd. Basic Information, Metal Alloy Current Sense Resistors for AI Servers Manufacturing Base, Sales Area and Its Competitors

Table 168. Token Electronics Industry Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications

Table 169. Token Electronics Industry Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Sales (Million Units), Revenue (\$ Million), Price (USD/k Units) and Gross Margin (2021-2026)

Table 170. Token Electronics Industry Co., Ltd. Main Business

Table 171. Token Electronics Industry Co., Ltd. Latest Developments

Table 172. Vishay Precision Group, Inc. Basic Information, Metal Alloy Current Sense Resistors for AI Servers Manufacturing Base, Sales Area and Its Competitors

Table 173. Vishay Precision Group, Inc. Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications

Table 174. Vishay Precision Group, Inc. Metal Alloy Current Sense Resistors for AI Servers Sales (Million Units), Revenue (\$ Million), Price (USD/k Units) and Gross

Margin (2021-2026)

Table 175. Vishay Precision Group, Inc. Main Business

Table 176. Vishay Precision Group, Inc. Latest Developments

Table 177. Ohmite Manufacturing Company Basic Information, Metal Alloy Current Sense Resistors for AI Servers Manufacturing Base, Sales Area and Its Competitors

Table 178. Ohmite Manufacturing Company Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications

Table 179. Ohmite Manufacturing Company Metal Alloy Current Sense Resistors for AI Servers Sales (Million Units), Revenue (\$ Million), Price (USD/k Units) and Gross Margin (2021-2026)

Table 180. Ohmite Manufacturing Company Main Business

Table 181. Ohmite Manufacturing Company Latest Developments

Table 182. Guangdong Fenghua Advanced Technology (Holding) Co., Ltd. Basic Information, Metal Alloy Current Sense Resistors for AI Servers Manufacturing Base, Sales Area and Its Competitors

Table 183. Guangdong Fenghua Advanced Technology (Holding) Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications

Table 184. Guangdong Fenghua Advanced Technology (Holding) Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Sales (Million Units), Revenue (\$ Million), Price (USD/k Units) and Gross Margin (2021-2026)

Table 185. Guangdong Fenghua Advanced Technology (Holding) Co., Ltd. Main Business

Table 186. Guangdong Fenghua Advanced Technology (Holding) Co., Ltd. Latest Developments

Table 187. PROSEMI Micro-electronic Technology Co., Ltd. Basic Information, Metal Alloy Current Sense Resistors for AI Servers Manufacturing Base, Sales Area and Its Competitors

Table 188. PROSEMI Micro-electronic Technology Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Product Portfolios and Specifications

Table 189. PROSEMI Micro-electronic Technology Co., Ltd. Metal Alloy Current Sense Resistors for AI Servers Sales (Million Units), Revenue (\$ Million), Price (USD/k Units) and Gross Margin (2021-2026)

Table 190. PROSEMI Micro-electronic Technology Co., Ltd. Main Business

Table 191. PROSEMI Micro-electronic Technology Co., Ltd. Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Metal Alloy Current Sense Resistors for AI Servers

Figure 2. Metal Alloy Current Sense Resistors for AI Servers Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Metal Alloy Current Sense Resistors for AI Servers Sales Growth Rate 2021-2032 (Million Units)

Figure 7. Global Metal Alloy Current Sense Resistors for AI Servers Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. Metal Alloy Current Sense Resistors for AI Servers Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. Metal Alloy Current Sense Resistors for AI Servers Sales Market Share by Country/Region (2025)

Figure 10. Metal Alloy Current Sense Resistors for AI Servers Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of Metal Foil Current Sense Resistor

Figure 12. Product Picture of Metal Plate Current Sense Resistor

Figure 13. Product Picture of Metal Strip Current Sense Resistor

Figure 14. Product Picture of Welded Metal Element Current Sense Resistor

Figure 15. Global Metal Alloy Current Sense Resistors for AI Servers Sales Market Share by Type in 2026

Figure 16. Global Metal Alloy Current Sense Resistors for AI Servers Revenue Market Share by Type (2021-2026)

Figure 17. Product Picture of Below 1 m?

Figure 18. Product Picture of 1–5 m?

Figure 19. Product Picture of Above 5–20 m?

Figure 20. Product Picture of Above 20 m?

Figure 21. Global Metal Alloy Current Sense Resistors for AI Servers Sales Market Share by Resistance Range in 2026

Figure 22. Global Metal Alloy Current Sense Resistors for AI Servers Revenue Market Share by Resistance Range (2021-2026)

Figure 23. Product Picture of Below 1 W

Figure 24. Product Picture of 1–3 W

Figure 25. Product Picture of Above 3–5 W

Figure 26. Product Picture of Above 5 W

Figure 27. Global Metal Alloy Current Sense Resistors for AI Servers Sales Market Share by Power Rating in 2026

Figure 28. Global Metal Alloy Current Sense Resistors for AI Servers Revenue Market Share by Power Rating (2021-2026)

Figure 29. Metal Alloy Current Sense Resistors for AI Servers Consumed in GPU and AI Accelerator Power Modules

Figure 30. Global Metal Alloy Current Sense Resistors for AI Servers Market: GPU and AI Accelerator Power Modules (2021-2026) & (Million Units)

Figure 31. Metal Alloy Current Sense Resistors for AI Servers Consumed in CPU and Mainboard VRM

Figure 32. Global Metal Alloy Current Sense Resistors for AI Servers Market: CPU and Mainboard VRM (2021-2026) & (Million Units)

Figure 33. Metal Alloy Current Sense Resistors for AI Servers Consumed in AI Server Power Supply Units

Figure 34. Global Metal Alloy Current Sense Resistors for AI Servers Market: AI Server Power Supply Units (2021-2026) & (Million Units)

Figure 35. Metal Alloy Current Sense Resistors for AI Servers Consumed in 48V/54V Power Shelf and Power Bus

Figure 36. Global Metal Alloy Current Sense Resistors for AI Servers Market: 48V/54V Power Shelf and Power Bus (2021-2026) & (Million Units)

Figure 37. Metal Alloy Current Sense Resistors for AI Servers Consumed in DC-DC Converters and Hot-Swap Circuits

Figure 38. Global Metal Alloy Current Sense Resistors for AI Servers Market: DC-DC Converters and Hot-Swap Circuits (2021-2026) & (Million Units)

Figure 39. Metal Alloy Current Sense Resistors for AI Servers Consumed in Battery Backup Units and Rack-Level Backup Power

Figure 40. Global Metal Alloy Current Sense Resistors for AI Servers Market: Battery Backup Units and Rack-Level Backup Power (2021-2026) & (Million Units)

Figure 41. Global Metal Alloy Current Sense Resistors for AI Servers Sale Market Share by Application (2025)

Figure 42. Global Metal Alloy Current Sense Resistors for AI Servers Revenue Market Share by Application in 2025

Figure 43. Metal Alloy Current Sense Resistors for AI Servers Sales by Company in 2025 (Million Units)

Figure 44. Global Metal Alloy Current Sense Resistors for AI Servers Sales Market Share by Company in 2025

Figure 45. Metal Alloy Current Sense Resistors for AI Servers Revenue by Company in 2025 (\$ millions)

Figure 46. Global Metal Alloy Current Sense Resistors for AI Servers Revenue Market

Share by Company in 2025

Figure 47. Global Metal Alloy Current Sense Resistors for AI Servers Sales Market
Share by Geographic Region (2021-2026)

Figure 48. Global Metal Alloy Current Sense Resistors for AI Servers Revenue Market
Share by Geographic Region in 2025

Figure 49. Americas Metal Alloy Current Sense Resistors for AI Servers Sales
2021-2026 (Million Units)

Figure 50. Americas Metal Alloy Current Sense Resistors for AI Servers Revenue
2021-2026 (\$ millions)

Figure 51. APAC Metal Alloy Current Sense Resistors for AI Servers Sales 2021-2026
(Million Units)

Figure 52. APAC Metal Alloy Current Sense Resistors for AI Servers Revenue
2021-2026 (\$ millions)

Figure 53. Europe Metal Alloy Current Sense Resistors for AI Servers Sales 2021-2026
(Million Units)

Figure 54. Europe Metal Alloy Current Sense Resistors for AI Servers Revenue
2021-2026 (\$ millions)

Figure 55. Middle East & Africa Metal Alloy Current Sense Resistors for AI Servers
Sales 2021-2026 (Million Units)

Figure 56. Middle East & Africa Metal Alloy Current Sense Resistors for AI Servers
Revenue 2021-2026 (\$ millions)

Figure 57. Americas Metal Alloy Current Sense Resistors for AI Servers Sales Market
Share by Country in 2025

Figure 58. Americas Metal Alloy Current Sense Resistors for AI Servers Revenue
Market Share by Country (2021-2026)

Figure 59. Americas Metal Alloy Current Sense Resistors for AI Servers Sales Market
Share by Type (2021-2026)

Figure 60. Americas Metal Alloy Current Sense Resistors for AI Servers Sales Market
Share by Application (2021-2026)

Figure 61. United States Metal Alloy Current Sense Resistors for AI Servers Revenue
Growth 2021-2026 (\$ millions)

Figure 62. Canada Metal Alloy Current Sense Resistors for AI Servers Revenue Growth
2021-2026 (\$ millions)

Figure 63. Mexico Metal Alloy Current Sense Resistors for AI Servers Revenue Growth
2021-2026 (\$ millions)

Figure 64. Brazil Metal Alloy Current Sense Resistors for AI Servers Revenue Growth
2021-2026 (\$ millions)

Figure 65. APAC Metal Alloy Current Sense Resistors for AI Servers Sales Market
Share by Region in 2025

Figure 66. APAC Metal Alloy Current Sense Resistors for AI Servers Revenue Market Share by Region (2021-2026)

Figure 67. APAC Metal Alloy Current Sense Resistors for AI Servers Sales Market Share by Type (2021-2026)

Figure 68. APAC Metal Alloy Current Sense Resistors for AI Servers Sales Market Share by Application (2021-2026)

Figure 69. China Metal Alloy Current Sense Resistors for AI Servers Revenue Growth 2021-2026 (\$ millions)

Figure 70. Japan Metal Alloy Current Sense Resistors for AI Servers Revenue Growth 2021-2026 (\$ millions)

Figure 71. South Korea Metal Alloy Current Sense Resistors for AI Servers Revenue Growth 2021-2026 (\$ millions)

Figure 72. Southeast Asia Metal Alloy Current Sense Resistors for AI Servers Revenue Growth 2021-2026 (\$ millions)

Figure 73. India Metal Alloy Current Sense Resistors for AI Servers Revenue Growth 2021-2026 (\$ millions)

Figure 74. Australia Metal Alloy Current Sense Resistors for AI Servers Revenue Growth 2021-2026 (\$ millions)

Figure 75. China Taiwan Metal Alloy Current Sense Resistors for AI Servers Revenue Growth 2021-2026 (\$ millions)

Figure 76. Europe Metal Alloy Current Sense Resistors for AI Servers Sales Market Share by Country in 2025

Figure 77. Europe Metal Alloy Current Sense Resistors for AI Servers Revenue Market Share by Country (2021-2026)

Figure 78. Europe Metal Alloy Current Sense Resistors for AI Servers Sales Market Share by Type (2021-2026)

Figure 79. Europe Metal Alloy Current Sense Resistors for AI Servers Sales Market Share by Application (2021-2026)

Figure 80. Germany Metal Alloy Current Sense Resistors for AI Servers Revenue Growth 2021-2026 (\$ millions)

Figure 81. France Metal Alloy Current Sense Resistors for AI Servers Revenue Growth 2021-2026 (\$ millions)

Figure 82. UK Metal Alloy Current Sense Resistors for AI Servers Revenue Growth 2021-2026 (\$ millions)

Figure 83. Italy Metal Alloy Current Sense Resistors for AI Servers Revenue Growth 2021-2026 (\$ millions)

Figure 84. Russia Metal Alloy Current Sense Resistors for AI Servers Revenue Growth 2021-2026 (\$ millions)

Figure 85. Middle East & Africa Metal Alloy Current Sense Resistors for AI Servers

Sales Market Share by Country (2021-2026)

Figure 86. Middle East & Africa Metal Alloy Current Sense Resistors for AI Servers

Sales Market Share by Type (2021-2026)

Figure 87. Middle East & Africa Metal Alloy Current Sense Resistors for AI Servers

Sales Market Share by Application (2021-2026)

Figure 88. Egypt Metal Alloy Current Sense Resistors for AI Servers Revenue Growth 2021-2026 (\$ millions)

Figure 89. South Africa Metal Alloy Current Sense Resistors for AI Servers Revenue Growth 2021-2026 (\$ millions)

Figure 90. Israel Metal Alloy Current Sense Resistors for AI Servers Revenue Growth 2021-2026 (\$ millions)

Figure 91. Turkey Metal Alloy Current Sense Resistors for AI Servers Revenue Growth 2021-2026 (\$ millions)

Figure 92. GCC Countries Metal Alloy Current Sense Resistors for AI Servers Revenue Growth 2021-2026 (\$ millions)

Figure 93. Manufacturing Cost Structure Analysis of Metal Alloy Current Sense Resistors for AI Servers in 2026

Figure 94. Manufacturing Process Analysis of Metal Alloy Current Sense Resistors for AI Servers

Figure 95. Industry Chain Structure of Metal Alloy Current Sense Resistors for AI Servers

Figure 96. Channels of Distribution

Figure 97. Global Metal Alloy Current Sense Resistors for AI Servers Sales Market Forecast by Region (2027-2032)

Figure 98. Global Metal Alloy Current Sense Resistors for AI Servers Revenue Market Share Forecast by Region (2027-2032)

Figure 99. Global Metal Alloy Current Sense Resistors for AI Servers Sales Market Share Forecast by Type (2027-2032)

Figure 100. Global Metal Alloy Current Sense Resistors for AI Servers Revenue Market Share Forecast by Type (2027-2032)

Figure 101. Global Metal Alloy Current Sense Resistors for AI Servers Sales Market Share Forecast by Application (2027-2032)

Figure 102. Global Metal Alloy Current Sense Resistors for AI Servers Revenue Market Share Forecast by Application (2027-2032)

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