

# Global Metal Current Sensing Resistor Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Metal Current Sensing Resistor market size will reach 801.34 Million USD in 2025 and is projected to reach 1,944.41 Million USD by 2032, with a CAGR of 13.50% (2025-2032). Notably, the China Metal Current Sensing Resistor market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

A metal current sensing resistor, also known as a shunt resistor, is a precision resistor used to measure the current flow in a circuit by detecting the voltage drop across it. These resistors are made from materials with low temperature coefficients and high conductivity, such as manganese-copper alloys, to ensure accurate and stable measurements even under varying temperature conditions. Metal current sensing resistors are designed to have low resistance values to minimize power loss and heat generation while providing precise current measurements. They are widely used in power management, battery monitoring, automotive applications, and various electronic devices where accurate current measurement is critical for performance and safety. The voltage drop measured across the resistor is proportional to the current flowing through it, allowing for the calculation of the current using Ohm's law.

The major global manufacturers of Metal Current Sensing Resistor include YAGEO, UNI-ROYAL, Ralec, WalterFuse, TA-I Technology, Fenghua Advanced Technology, Thin Film Technology, Viking, Everohms, Susumu, Lizgroup, ROHM, Vishay, TT Electronics,

Samsung, Cynotec, Isabelleh?tte, Sartfuse, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Metal Current Sensing Resistor. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Metal Current Sensing Resistor market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Metal Current Sensing Resistor market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Metal Current Sensing Resistor industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Metal Current Sensing Resistor Include:

YAGEO

UNI-ROYAL

Ralec

WalterFuse

TA-I Technology

Fenghua Advanced Technology

Thin Film Technology

Viking

Everohms

Susumu

Lizgroup

ROHM

Vishay

TT Electronics

Samsung

Cyntec

Isabellenh?tte

Sartfuse

Metal Current Sensing Resistor Product Segment Include:

0xxx

1xxx

2xxx

4xxx

Others

Metal Current Sensing Resistor Product Application Include:

Cell Phone

Batteries and Components

Tablet & Computers

Automotive

Power Supply Industry

Home Appliances

Others

## **Chapter Scope**

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

Chapter 2: Global Metal Current Sensing Resistor Industry PESTEL Analysis

Chapter 3: Global Metal Current Sensing Resistor Industry Porter's Five Forces Analysis

Chapter 4: Global Metal Current Sensing Resistor Major Regional Market Size (Revenue, Sales, Price) and Forecast Analysis

Chapter 5: Global Metal Current Sensing Resistor Market Size and Forecast by Type

and Application Analysis

Chapter 6: North America Metal Current Sensing Resistor Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 7: Europe Metal Current Sensing Resistor Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 8: China Metal Current Sensing Resistor Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 9: APAC (Excl. China) Metal Current Sensing Resistor Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 10: Latin America Metal Current Sensing Resistor Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 11: Middle East and Africa Metal Current Sensing Resistor Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 12: Global Metal Current Sensing Resistor Competitive Analysis of Key Manufacturers (Sales, Revenue, Market Share, Price, Regional Distribution and Industry Concentration)

Chapter 13: Key Company Profiles (Product Portfolio, Sales, Revenue, Price and Gross Margin)

Chapter 14: Industrial Chain Analysis, Include Raw Material Suppliers, Distributors and Customers

Chapter 15: Research Findings and Conclusion

Chapter 16: Methodology and Data Sources

## Contents

### **1 METAL CURRENT SENSING RESISTOR MARKET OVERVIEW**

- 1.1 Product Definition and Statistical Scope
- 1.2 Metal Current Sensing Resistor Product by Type
  - 1.2.1 0xxx
  - 1.2.2 1xxx
  - 1.2.3 2xxx
  - 1.2.4 4xxx
  - 1.2.5 Others
- 1.3 Metal Current Sensing Resistor Product by Application
  - 1.3.1 Cell Phone
  - 1.3.2 Batteries and Components
  - 1.3.3 Tablet & Computers
  - 1.3.4 Automotive
  - 1.3.5 Power Supply Industry
  - 1.3.6 Home Appliances
  - 1.3.7 Others
- 1.4 Global Metal Current Sensing Resistor Market Revenue and Sales Analysis
  - 1.4.1 Global Metal Current Sensing Resistor Revenue Market Size Analysis (2020-2032)
  - 1.4.2 Global Metal Current Sensing Resistor Sales Market Size Analysis (2020-2032)
  - 1.4.3 Global Metal Current Sensing Resistor Market Sales Price Trend Analysis (2020-2032)
- 1.5 Metal Current Sensing Resistor Industry Trends and Innovation
  - 1.5.1 Metal Current Sensing Resistor Industry Trends and Innovation
  - 1.5.2 Metal Current Sensing Resistor Market Drivers and Challenges

### **2 METAL CURRENT SENSING RESISTOR MARKET PESTEL ANALYSIS**

- 2.1 Political Factors Analysis
- 2.2 Economic Factors Analysis
- 2.3 Social Factors Analysis
- 2.4 Technological Factors Analysis
- 2.5 Environmental Factors Analysis
- 2.6 Legal Factors Analysis

### **3 METAL CURRENT SENSING RESISTOR MARKET PORTER'S FIVE FORCES**

## **ANALYSIS**

- 3.1 Competitive Rivalry
- 3.2 Threat of New Entrants
- 3.3 Bargaining Power of Suppliers
- 3.4 Bargaining Power of Buyers
- 3.5 Threat of Substitutes

## **4 GLOBAL METAL CURRENT SENSING RESISTOR MARKET ANALYSIS BY REGIONS**

- 4.1 Global Metal Current Sensing Resistor Overall Market: 2024 VS 2025 VS 2032
- 4.2 Global Metal Current Sensing Resistor Revenue and Forecast Analysis (2020-2032)
  - 4.2.1 Global Metal Current Sensing Resistor Revenue and Market Share by Region (2020-2025)
  - 4.2.2 Global Metal Current Sensing Resistor Revenue and Market Share Forecast by Region (2026-2032)
- 4.3 Global Metal Current Sensing Resistor Sales and Forecast Analysis (2020-2032)
  - 4.3.1 Global Metal Current Sensing Resistor Sales and Market Share by Region (2020-2025)
  - 4.3.2 Global Metal Current Sensing Resistor Sales and Market Share Forecast by Region (2026-2032)
- 4.4 Global Metal Current Sensing Resistor Sales Price Trend Analysis (2020-2032)

## **5 GLOBAL METAL CURRENT SENSING RESISTOR MARKET SIZE BY TYPE AND APPLICATION**

- 5.1 Global Metal Current Sensing Resistor Market Size by Type
  - 5.1.1 Global Metal Current Sensing Resistor Revenue and Forecast Analysis by Type (2020-2032)
  - 5.1.2 Global Metal Current Sensing Resistor Sales and Forecast Analysis by Type (2020-2032)
- 5.2 Global Metal Current Sensing Resistor Market Size by Application
  - 5.2.1 Global Metal Current Sensing Resistor Revenue and Forecast Analysis by Application (2020-2032)
  - 5.2.2 Global Metal Current Sensing Resistor Sales and Forecast Analysis by Application (2020-2032)

## **6 NORTH AMERICA**

6.1 North America Metal Current Sensing Resistor Market Size and Growth Rate Analysis (2020-2032)

6.2 North America Key Manufacturers Analysis

6.3 North America Metal Current Sensing Resistor Market Size by Type

6.3.1 North America Metal Current Sensing Resistor Sales by Type (2020-2032)

6.3.2 North America Metal Current Sensing Resistor Revenue by Type (2020-2032)

6.4 North America Metal Current Sensing Resistor Market Size by Application

6.4.1 North America Metal Current Sensing Resistor Sales by Application (2020-2032)

6.4.2 North America Metal Current Sensing Resistor Revenue by Application (2020-2032)

6.5 North America Metal Current Sensing Resistor Market Size by Country

6.5.1 US

6.5.2 Canada

## **7 EUROPE**

7.1 Europe Metal Current Sensing Resistor Market Size and Growth Rate Analysis (2020-2032)

7.2 Europe Key Manufacturers Analysis

7.3 Europe Metal Current Sensing Resistor Market Size by Type

7.3.1 Europe Metal Current Sensing Resistor Sales by Type (2020-2032)

7.3.2 Europe Metal Current Sensing Resistor Revenue by Type (2020-2032)

7.4 Europe Metal Current Sensing Resistor Market Size by Application

7.4.1 Europe Metal Current Sensing Resistor Sales by Application (2020-2032)

7.4.2 Europe Metal Current Sensing Resistor Revenue by Application (2020-2032)

7.5 Europe Metal Current Sensing Resistor Market Size by Country

7.5.1 Germany

7.5.2 France

7.5.3 United Kingdom

7.5.4 Italy

7.5.5 Spain

7.5.6 Benelux

## **8 CHINA**

8.1 China Metal Current Sensing Resistor Market Size and Growth Rate Analysis (2020-2032)

8.2 China Key Manufacturers Analysis

### 8.3 China Metal Current Sensing Resistor Market Size by Type

8.3.1 China Metal Current Sensing Resistor Sales by Type (2020-2032)

8.3.2 China Metal Current Sensing Resistor Revenue by Type (2020-2032)

### 8.4 China Metal Current Sensing Resistor Market Size by Application

8.4.1 China Metal Current Sensing Resistor Sales by Application (2020-2032)

8.4.2 China Metal Current Sensing Resistor Revenue by Application (2020-2032)

## 9 APAC (EXCL. CHINA)

### 9.1 APAC (excl. China) Metal Current Sensing Resistor Market Size and Growth Rate Analysis (2020-2032)

### 9.2 APAC (excl. China) Key Manufacturers Analysis

### 9.3 APAC (excl. China) Metal Current Sensing Resistor Market Size by Type

9.3.1 APAC (excl. China) Metal Current Sensing Resistor Sales by Type (2020-2032)

9.3.2 APAC (excl. China) Metal Current Sensing Resistor Revenue by Type (2020-2032)

### 9.4 APAC (excl. China) Metal Current Sensing Resistor Market Size by Application

9.4.1 APAC (excl. China) Metal Current Sensing Resistor Sales by Application (2020-2032)

9.4.2 APAC (excl. China) Metal Current Sensing Resistor Revenue by Application (2020-2032)

### 9.5 APAC (excl. China) Metal Current Sensing Resistor Market Size by Country

9.5.1 Japan

9.5.2 South Korea

9.5.3 India

9.5.4 Australia

9.5.5 Southeast Asia

## 10 LATIN AMERICA

### 10.1 Latin America Metal Current Sensing Resistor Market Size and Growth Rate Analysis (2020-2032)

### 10.2 Latin America Key Manufacturers Analysis

### 10.3 Latin America Metal Current Sensing Resistor Market Size by Type

10.3.1 Latin America Metal Current Sensing Resistor Sales by Type (2020-2032)

10.3.2 Latin America Metal Current Sensing Resistor Revenue by Type (2020-2032)

### 10.4 Latin America Metal Current Sensing Resistor Market Size by Application

10.4.1 Latin America Metal Current Sensing Resistor Sales by Application (2020-2032)

10.4.2 Latin America Metal Current Sensing Resistor Revenue by Application

(2020-2032)

10.5 Latin America Metal Current Sensing Resistor Market Size by Country

10.6 Latin America Metal Current Sensing Resistor Market Size by Country

10.6.1 Mexico

10.6.2 Brazil

## **11 MIDDLE EAST & AFRICA**

11.1 Middle East & Africa Metal Current Sensing Resistor Market Size and Growth Rate Analysis (2020-2032)

11.2 Middle East & Africa Key Manufacturers Analysis

11.3 Middle East & Africa Metal Current Sensing Resistor Market Size by Type

11.3.1 Middle East & Africa Metal Current Sensing Resistor Sales by Type (2020-2032)

11.3.2 Middle East & Africa Metal Current Sensing Resistor Revenue by Type (2020-2032)

11.4 Middle East & Africa Metal Current Sensing Resistor Market Size by Application

11.4.1 Middle East & Africa Metal Current Sensing Resistor Sales by Application (2020-2032)

11.4.2 Middle East & Africa Metal Current Sensing Resistor Revenue by Application (2020-2032)

11.5 Middle East Metal Current Sensing Resistor Market Size by Country

11.5.1 Saudi Arabia

11.5.2 South Africa

## **12 COMPETITION BY MANUFACTURERS**

12.1 Global Metal Current Sensing Resistor Market Sales, Revenue and Price by Key Manufacturers (2021-2025)

12.1.1 Global Metal Current Sensing Resistor Market Sales by Key Manufacturers (2021-2025)

12.1.2 Global Metal Current Sensing Resistor Market Revenue by Key Manufacturers (2021-2025)

12.1.3 Global Metal Current Sensing Resistor Average Sales Price by Manufacturers (2021-2025)

12.2 Metal Current Sensing Resistor Competitive Landscape Analysis and Market Dynamic

12.2.1 Metal Current Sensing Resistor Competitive Landscape Analysis

12.2.2 Global Key Manufacturers Headquarter Location and Key Area Sales

### 12.2.3 Market Dynamic

## 13 KEY COMPANIES ANALYSIS

### 13.1 YAGEO

13.1.1 YAGEO Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.1.2 YAGEO Metal Current Sensing Resistor Product Portfolio

13.1.3 YAGEO Metal Current Sensing Resistor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

### 13.2 UNI-ROYAL

13.2.1 UNI-ROYAL Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.2.2 UNI-ROYAL Metal Current Sensing Resistor Product Portfolio

13.2.3 UNI-ROYAL Metal Current Sensing Resistor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

### 13.3 Ralec

13.3.1 Ralec Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.3.2 Ralec Metal Current Sensing Resistor Product Portfolio

13.3.3 Ralec Metal Current Sensing Resistor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

### 13.4 WalterFuse

13.4.1 WalterFuse Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.4.2 WalterFuse Metal Current Sensing Resistor Product Portfolio

13.4.3 WalterFuse Metal Current Sensing Resistor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

### 13.5 TA-I Technology

13.5.1 TA-I Technology Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.5.2 TA-I Technology Metal Current Sensing Resistor Product Portfolio

13.5.3 TA-I Technology Metal Current Sensing Resistor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

### 13.6 Fenghua Advanced Technology

13.6.1 Fenghua Advanced Technology Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.6.2 Fenghua Advanced Technology Metal Current Sensing Resistor Product Portfolio

13.6.3 Fenghua Advanced Technology Metal Current Sensing Resistor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

### 13.7 Thin Film Technology

13.7.1 Thin Film Technology Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.7.2 Thin Film Technology Metal Current Sensing Resistor Product Portfolio

13.7.3 Thin Film Technology Metal Current Sensing Resistor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

### 13.8 Viking

13.8.1 Viking Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.8.2 Viking Metal Current Sensing Resistor Product Portfolio

13.8.3 Viking Metal Current Sensing Resistor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

### 13.9 Everohms

13.9.1 Everohms Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.9.2 Everohms Metal Current Sensing Resistor Product Portfolio

13.9.3 Everohms Metal Current Sensing Resistor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

### 13.10 Susumu

13.10.1 Susumu Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.10.2 Susumu Metal Current Sensing Resistor Product Portfolio

13.10.3 Susumu Metal Current Sensing Resistor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

### 13.11 Lizgroup

13.11.1 Lizgroup Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.11.2 Lizgroup Metal Current Sensing Resistor Product Portfolio

13.11.3 Lizgroup Metal Current Sensing Resistor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

### 13.12 ROHM

13.12.1 ROHM Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.12.2 ROHM Metal Current Sensing Resistor Product Portfolio

13.12.3 ROHM Metal Current Sensing Resistor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

### 13.13 Vishay

13.13.1 Vishay Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.13.2 Vishay Metal Current Sensing Resistor Product Portfolio

13.13.3 Vishay Metal Current Sensing Resistor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.14 TT Electronics

13.14.1 TT Electronics Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.14.2 TT Electronics Metal Current Sensing Resistor Product Portfolio

13.14.3 TT Electronics Metal Current Sensing Resistor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.15 Samsung

13.15.1 Samsung Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.15.2 Samsung Metal Current Sensing Resistor Product Portfolio

13.15.3 Samsung Metal Current Sensing Resistor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.16 Cyntec

13.16.1 Cyntec Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.16.2 Cyntec Metal Current Sensing Resistor Product Portfolio

13.16.3 Cyntec Metal Current Sensing Resistor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.17 Isabellenhutte

13.17.1 Isabellenhutte Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.17.2 Isabellenhutte Metal Current Sensing Resistor Product Portfolio

13.17.3 Isabellenhutte Metal Current Sensing Resistor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.18 Sartfuse

13.18.1 Sartfuse Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.18.2 Sartfuse Metal Current Sensing Resistor Product Portfolio

13.18.3 Sartfuse Metal Current Sensing Resistor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

## **14 INDUSTRY CHAIN ANALYSIS**

14.1 Metal Current Sensing Resistor Industry Chain Analysis

14.2 Metal Current Sensing Resistor Industry Raw Material and Suppliers Analysis

14.2.1 Metal Current Sensing Resistor Key Raw Material Supply Analysis

14.2.2 Raw Material Suppliers and Contact Information

14.3 Metal Current Sensing Resistor Typical Downstream Customers

14.4 Metal Current Sensing Resistor Sales Channel Analysis

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 METHODOLOGY AND DATA SOURCE**

16.1 Methodology/Research Approach

16.2 Research Scope

16.3 Benchmarks and Assumptions

16.4 Data Source

16.4.1 Primary Sources

16.4.2 Secondary Sources

16.5 Data Cross Validation

16.6 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1: Global Metal Current Sensing Resistor Market Size Growth Rate by Type, 2024 VS 2025 VS 2032 (US\$ Million)

Table 2: Global Metal Current Sensing Resistor Market Size Growth Rate by Application, 2024 VS 2025 VS 2032 (US\$ Million)

Table 3: Metal Current Sensing Resistor Industry Development Status

Table 4: Metal Current Sensing Resistor Industry Development Trends

Table 5: Global Metal Current Sensing Resistor Market Size by Region in US\$ Million: 2024 VS 2025 VS 2032

Table 6: Global Metal Current Sensing Resistor Revenue by Region (2020-2025) & (US\$ Million)

Table 7: Global Metal Current Sensing Resistor Revenue Market Share by Region (2020-2025)

Table 8: Global Metal Current Sensing Resistor Revenue Forecast by Region (2026-2032) & (US\$ Million)

Table 9: Global Metal Current Sensing Resistor Revenue Market Share Forecast by Region (2026-2032)

Table 10: Global Metal Current Sensing Resistor Sales by Region (2020-2025) & (M Pcs)

Table 11: Global Metal Current Sensing Resistor Sales Market Share by Region (2020-2025)

Table 12: Global Metal Current Sensing Resistor Sales Forecast by Region (2026-2032) & (M Pcs)

Table 13: Global Metal Current Sensing Resistor Sales Market Share Forecast by Region (2026-2032)

Table 14: Global Metal Current Sensing Resistor Revenue Analysis by Type (2020-2025) & (US\$ Million)

Table 15: Global Metal Current Sensing Resistor Revenue Analysis Forecast by Type (2026-2032) & (US\$ Million)

Table 16: Global Metal Current Sensing Resistor Sales Analysis by Type (2020-2025) & (M Pcs)

Table 17: Global Metal Current Sensing Resistor Sales Analysis Forecast by Type (2026-2032) & (M Pcs)

Table 18: Global Metal Current Sensing Resistor Revenue Analysis by Application (2020-2025) & (US\$ Million)

Table 19: Global Metal Current Sensing Resistor Revenue Analysis Forecast by

Application (2026-2032) & (US\$ Million)

Table 20: Global Metal Current Sensing Resistor Sales Analysis by Application (2020-2025) & (M Pcs)

Table 21: Global Metal Current Sensing Resistor Sales Analysis Forecast by Application (2026-2032) & (M Pcs)

Table 22: Key Metal Current Sensing Resistor Players in North America

Table 23: North America Metal Current Sensing Resistor Sales by Type (2020-2025) & (M Pcs)

Table 24: North America Metal Current Sensing Resistor Sales by Type (2026-2032) & (M Pcs)

Table 25: North America Metal Current Sensing Resistor Revenue by Type (2020-2025) & (US\$ Million)

Table 26: North America Metal Current Sensing Resistor Revenue by Type (2026-2032) & (US\$ Million)

Table 27: North America Metal Current Sensing Resistor Sales by Application (2020-2025) & (M Pcs)

Table 28: North America Metal Current Sensing Resistor Sales by Application (2026-2032) & (M Pcs)

Table 29: North America Metal Current Sensing Resistor Revenue by Application (2020-2025) & (US\$ Million)

Table 30: North America Metal Current Sensing Resistor Revenue by Application (2026-2032) & (US\$ Million)

Table 31: North America Metal Current Sensing Resistor Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 32: North America Metal Current Sensing Resistor Revenue Market Size by Country (2026-2032) & (US\$ Million)

Table 33: North America Metal Current Sensing Resistor Sales Market Size by Country (2020-2025) & (M Pcs)

Table 34: North America Metal Current Sensing Resistor Sales Market Size by Country (2026-2032) & (M Pcs)

Table 35: Key Metal Current Sensing Resistor Players in Europe

Table 36: Europe Metal Current Sensing Resistor Sales by Type (2020-2025) & (M Pcs)

Table 37: Europe Metal Current Sensing Resistor Sales by Type (2026-2032) & (M Pcs)

Table 38: Europe Metal Current Sensing Resistor Revenue by Type (2020-2025) & (US\$ Million)

Table 39: Europe Metal Current Sensing Resistor Revenue by Type (2026-2032) & (US\$ Million)

Table 40: Europe Metal Current Sensing Resistor Sales by Application (2020-2025) & (M Pcs)

Table 41: Europe Metal Current Sensing Resistor Sales by Application (2026-2032) & (M Pcs)

Table 42: Europe Metal Current Sensing Resistor Revenue by Application (2020-2025) & (US\$ Million)

Table 43: Europe Metal Current Sensing Resistor Revenue by Application (2026-2032) & (US\$ Million)

Table 44: Europe Metal Current Sensing Resistor Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 45: Europe Metal Current Sensing Resistor Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 46: Europe Metal Current Sensing Resistor Sales Market Size by Country (2020-2025) & (M Pcs)

Table 47: Europe Metal Current Sensing Resistor Sales Market Size Forecast by Country (2026-2032) & (M Pcs)

Table 48: Key Metal Current Sensing Resistor Players in China

Table 49: China Metal Current Sensing Resistor Sales by Type (2020-2025) & (M Pcs)

Table 50: China Metal Current Sensing Resistor Sales by Type (2026-2032) & (M Pcs)

Table 51: China Metal Current Sensing Resistor Revenue by Type (2020-2025) & (US\$ Million)

Table 52: China Metal Current Sensing Resistor Revenue by Type (2026-2032) & (US\$ Million)

Table 53: China Metal Current Sensing Resistor Sales by Application (2020-2025) & (M Pcs)

Table 54: China Metal Current Sensing Resistor Sales by Application (2026-2032) & (M Pcs)

Table 55: China Metal Current Sensing Resistor Revenue by Application (2020-2025) & (US\$ Million)

Table 56: China Metal Current Sensing Resistor Revenue by Application (2026-2032) & (US\$ Million)

Table 57: Key Metal Current Sensing Resistor Players in APAC (excl. China)

Table 58: APAC (excl. China) Metal Current Sensing Resistor Sales by Type (2020-2025) & (M Pcs)

Table 59: APAC (excl. China) Metal Current Sensing Resistor Sales by Type (2026-2032) & (M Pcs)

Table 60: APAC (excl. China) Metal Current Sensing Resistor Revenue by Type (2020-2025) & (US\$ Million)

Table 61: APAC (excl. China) Metal Current Sensing Resistor Revenue by Type (2026-2032) & (US\$ Million)

Table 62: APAC (excl. China) Metal Current Sensing Resistor Sales by Application

(2020-2025) & (M Pcs)

Table 63: APAC (excl. China) Metal Current Sensing Resistor Sales by Application

(2026-2032) & (M Pcs)

Table 64: APAC (excl. China) Metal Current Sensing Resistor Revenue by Application

(2020-2025) & (US\$ Million)

Table 65: APAC (excl. China) Metal Current Sensing Resistor Revenue by Application

(2026-2032) & (US\$ Million)

Table 66: APAC (excl. China) Metal Current Sensing Resistor Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 67: APAC (excl. China) Metal Current Sensing Resistor Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 68: APAC (excl. China) Metal Current Sensing Resistor Sales Market Size by Country (2020-2025) & (M Pcs)

Table 69: APAC (excl. China) Metal Current Sensing Resistor Sales Market Size Forecast by Country (2026-2032) & (M Pcs)

Table 70: Key Metal Current Sensing Resistor Players in Latin America

Table 71: Latin America Metal Current Sensing Resistor Sales by Type (2020-2025) & (M Pcs)

Table 72: Latin America Metal Current Sensing Resistor Sales by Type (2026-2032) & (M Pcs)

Table 73: Latin America Metal Current Sensing Resistor Revenue by Type (2020-2025) & (US\$ Million)

Table 74: Latin America Metal Current Sensing Resistor Revenue by Type (2026-2032) & (US\$ Million)

Table 75: Latin America Metal Current Sensing Resistor Sales by Application (2020-2025) & (M Pcs)

Table 76: Latin America Metal Current Sensing Resistor Sales by Application (2026-2032) & (M Pcs)

Table 77: Latin America Metal Current Sensing Resistor Revenue by Application (2020-2025) & (US\$ Million)

Table 78: Latin America Metal Current Sensing Resistor Revenue by Application (2026-2032) & (US\$ Million)

Table 79: Latin America Metal Current Sensing Resistor Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 80: Latin America Metal Current Sensing Resistor Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 81: Latin America Metal Current Sensing Resistor Sales Market Size by Country (2020-2025) & (M Pcs)

Table 82: Latin America Metal Current Sensing Resistor Sales Market Size Forecast by

Country (2026-2032) & (M Pcs)

Table 83: Key Metal Current Sensing Resistor Players in Middle East & Africa

Table 84: Middle East & Africa Metal Current Sensing Resistor Sales by Type (2020-2025) & (M Pcs)

Table 85: Middle East & Africa Metal Current Sensing Resistor Sales by Type (2026-2032) & (M Pcs)

Table 86: Middle East & Africa Metal Current Sensing Resistor Revenue by Type (2020-2025) & (US\$ Million)

Table 87: Middle East & Africa Metal Current Sensing Resistor Revenue by Type (2026-2032) & (US\$ Million)

Table 88: Middle East & Africa Metal Current Sensing Resistor Sales by Application (2020-2025) & (M Pcs)

Table 89: Middle East & Africa Metal Current Sensing Resistor Sales by Application (2026-2032) & (M Pcs)

Table 90: Middle East & Africa Metal Current Sensing Resistor Revenue by Application (2020-2025) & (US\$ Million)

Table 91: Middle East & Africa Metal Current Sensing Resistor Revenue by Application (2026-2032) & (US\$ Million)

Table 92: Middle East & Africa Metal Current Sensing Resistor Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 93: Middle East & Africa Metal Current Sensing Resistor Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 94: Middle East & Africa Metal Current Sensing Resistor Sales Market Size by Country (2020-2025) & (M Pcs)

Table 95: Middle East & Africa Metal Current Sensing Resistor Sales Market Size Forecast by Country (2026-2032) & (M Pcs)

Table 96: Global Metal Current Sensing Resistor Market Sales by Key Manufacturers (2021-2025) & (M Pcs)

Table 97: Global Metal Current Sensing Resistor Sales Market Share by Key Manufacturers (2021-2025)

Table 98: Global Metal Current Sensing Resistor Market Revenue by Key Manufacturers (2021-2025) & (US\$ Million)

Table 99: Global Metal Current Sensing Resistor Revenue Market Share by Key Manufacturers (2021-2025)

Table 100: Global Average Sales Price by Manufacturers (2021-2025) & (USD/K Pcs)

Table 101: Global Key Manufacturers Headquarter Location and Key Area Sales

Table 102: Market Mergers & Acquisitions, Expansion

Table 103: YAGEO Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 104: YAGEO Metal Current Sensing Resistor Product Portfolio

Table 105: YAGEO Metal Current Sensing Resistor Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 106: UNI-ROYAL Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 107: UNI-ROYAL Metal Current Sensing Resistor Product Portfolio

Table 108: UNI-ROYAL Metal Current Sensing Resistor Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 109: Ralec Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 110: Ralec Metal Current Sensing Resistor Product Portfolio

Table 111: Ralec Metal Current Sensing Resistor Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 112: WalterFuse Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 113: WalterFuse Metal Current Sensing Resistor Product Portfolio

Table 114: WalterFuse Metal Current Sensing Resistor Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 115: TA-I Technology Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 116: TA-I Technology Metal Current Sensing Resistor Product Portfolio

Table 117: TA-I Technology Metal Current Sensing Resistor Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 118: Fenghua Advanced Technology Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 119: Fenghua Advanced Technology Metal Current Sensing Resistor Product Portfolio

Table 120: Fenghua Advanced Technology Metal Current Sensing Resistor Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 121: Thin Film Technology Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 122: Thin Film Technology Metal Current Sensing Resistor Product Portfolio

Table 123: Thin Film Technology Metal Current Sensing Resistor Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 124: Viking Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 125: Viking Metal Current Sensing Resistor Product Portfolio

Table 126: Viking Metal Current Sensing Resistor Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 127: Everohms Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 128: Everohms Metal Current Sensing Resistor Product Portfolio

Table 129: Everohms Metal Current Sensing Resistor Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 130: Susumu Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 131: Susumu Metal Current Sensing Resistor Product Portfolio

Table 132: Susumu Metal Current Sensing Resistor Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 133: Lizgroup Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 134: Lizgroup Metal Current Sensing Resistor Product Portfolio

Table 135: Lizgroup Metal Current Sensing Resistor Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 136: ROHM Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 137: ROHM Metal Current Sensing Resistor Product Portfolio

Table 138: ROHM Metal Current Sensing Resistor Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 139: Vishay Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 140: Vishay Metal Current Sensing Resistor Product Portfolio

Table 141: Vishay Metal Current Sensing Resistor Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 142: TT Electronics Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 143: TT Electronics Metal Current Sensing Resistor Product Portfolio

Table 144: TT Electronics Metal Current Sensing Resistor Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 145: Samsung Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 146: Samsung Metal Current Sensing Resistor Product Portfolio

Table 147: Samsung Metal Current Sensing Resistor Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 148: Cynotec Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 149: Cynotec Metal Current Sensing Resistor Product Portfolio

Table 150: Cynotec Metal Current Sensing Resistor Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 151: Isabellenhutte Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 152: Isabellenhutte Metal Current Sensing Resistor Product Portfolio

Table 153: Isabellenhutte Metal Current Sensing Resistor Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 154: Sartfuse Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 155: Sartfuse Metal Current Sensing Resistor Product Portfolio

Table 156: Sartfuse Metal Current Sensing Resistor Revenue (US\$ Million), Sales (M Pcs), Price (USD/K Pcs), Gross Margin and Market Share (2021-2025)

Table 157: Upstream Key Raw Material Price List

Table 158: Metal Current Sensing Resistor Raw Material Suppliers and Contact Information

Table 159: Metal Current Sensing Resistor Typical Customer List

Table 160: Metal Current Sensing Resistor Distributors List

## List Of Figures

### LIST OF FIGURES

Figure 1: Metal Current Sensing Resistor Product Pictures

Figure 2: 0xxx Picture Scope

Figure 3: 1xxx Picture Scope

Figure 4: 2xxx Picture Scope

Figure 5: 4xxx Picture Scope

Figure 6: Others Picture Scope

Figure 7: Cell Phone Picture Scope

Figure 8: Batteries and Components Picture Scope

Figure 9: Tablet & Computers Picture Scope

Figure 10: Automotive Picture Scope

Figure 11: Power Supply Industry Picture Scope

Figure 12: Home Appliances Picture Scope

Figure 13: Others Picture Scope

Figure 14: Global Metal Current Sensing Resistor Market Size Analysis: 2024 VS 2025 VS 2032 (US\$ Million)

Figure 15: Global Metal Current Sensing Resistor Market Revenue and Growth Rate Analysis: (2020-2032) & (US\$ Million)

Figure 16: Global Metal Current Sensing Resistor Market Sales and Growth Rate Analysis (2020-2032) & (M Pcs)

Figure 17: Global Metal Current Sensing Resistor Market Price Trend Analysis (2020-2032) & (USD/K Pcs)

Figure 18: Global Metal Current Sensing Resistor Market Size by Region (2020-2032) & (US\$ Million)

Figure 19: Global Metal Current Sensing Resistor Market Share Scenario by Region in Percentage: 2025 Versus 2032

Figure 20: Global Metal Current Sensing Resistor Sales Price by Region (2020-2032) & (M Pcs)

Figure 21: North America Metal Current Sensing Resistor Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 22: North America Metal Current Sensing Resistor Revenue Market Share by Players in 2024

Figure 23: North America Metal Current Sensing Resistor Sales Market Share by Type (2020-2032)

Figure 24: North America Metal Current Sensing Resistor Revenue Market Share by Type (2020-2032)

Figure 25:North America Metal Current Sensing Resistor Sales Market Share by Application (2020-2032)

Figure 26:North America Metal Current Sensing Resistor Revenue Market Share by Application (2020-2032)

Figure 27:US Metal Current Sensing Resistor Revenue (2020-2032) & (US\$ Million)

Figure 28:Canada Metal Current Sensing Resistor Revenue (2020-2032) & (US\$ Million)

Figure 29:Europe Metal Current Sensing Resistor Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 30:Europe Metal Current Sensing Resistor Revenue Market Share by Players in 2024

Figure 31:Europe Metal Current Sensing Resistor Sales Market Share by Type (2020-2032)

Figure 32:Europe Metal Current Sensing Resistor Revenue Market Share by Type (2020-2032)

Figure 33:Europe Metal Current Sensing Resistor Sales Market Share by Application (2020-2032)

Figure 34:Europe Metal Current Sensing Resistor Revenue Market Share by Application (2020-2032)

Figure 35:Germany Metal Current Sensing Resistor Revenue (2020-2032) & (US\$ Million)

Figure 36:France Metal Current Sensing Resistor Revenue (2020-2032) & (US\$ Million)

Figure 37:United Kingdom Metal Current Sensing Resistor Revenue (2020-2032) & (US\$ Million)

Figure 38:Italy Metal Current Sensing Resistor Revenue (2020-2032) & (US\$ Million)

Figure 39:Spain Metal Current Sensing Resistor Revenue (2020-2032) & (US\$ Million)

Figure 40:Benelux Metal Current Sensing Resistor Revenue (2020-2032) & (US\$ Million)

Figure 41:China Metal Current Sensing Resistor Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 42:China Metal Current Sensing Resistor Revenue Market Share by Players in 2024

Figure 43:China Metal Current Sensing Resistor Sales Market Share by Type (2020-2032)

Figure 44:China Metal Current Sensing Resistor Revenue Market Share by Type (2020-2032)

Figure 45:China Metal Current Sensing Resistor Sales Market Share by Application (2020-2032)

Figure 46:China Metal Current Sensing Resistor Revenue Market Share by Application

(2020-2032)

Figure 47:APAC (excl. China) Metal Current Sensing Resistor Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 48:APAC (excl. China) Metal Current Sensing Resistor Revenue Market Share by Players in 2024

Figure 49:APAC (excl. China) Metal Current Sensing Resistor Sales Market Share by Type (2020-2032)

Figure 50:APAC (excl. China) Metal Current Sensing Resistor Revenue Market Share by Type (2020-2032)

Figure 51:APAC (excl. China) Metal Current Sensing Resistor Sales Market Share by Application (2020-2032)

Figure 52:APAC (excl. China) Metal Current Sensing Resistor Revenue Market Share by Application (2020-2032)

Figure 53:Japan Metal Current Sensing Resistor Revenue (2020-2032) & (US\$ Million)

Figure 54:South Korea Metal Current Sensing Resistor Revenue (2020-2032) & (US\$ Million)

Figure 55:India Metal Current Sensing Resistor Revenue (2020-2032) & (US\$ Million)

Figure 56:Australia Metal Current Sensing Resistor Revenue (2020-2032) & (US\$ Million)

Figure 57:Southeast Asia Metal Current Sensing Resistor Revenue (2020-2032) & (US\$ Million)

Figure 58:Latin America Metal Current Sensing Resistor Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 59:Latin America Metal Current Sensing Resistor Revenue Market Share by Players in 2024

Figure 60:Latin America Metal Current Sensing Resistor Sales Market Share by Type (2020-2032)

Figure 61:Latin America Metal Current Sensing Resistor Revenue Market Share by Type (2020-2032)

Figure 62:Latin America Metal Current Sensing Resistor Sales Market Share by Application (2020-2032)

Figure 63:Latin America Metal Current Sensing Resistor Revenue Market Share by Application (2020-2032)

Figure 64:Mexico Metal Current Sensing Resistor Revenue (2020-2032) & (US\$ Million)

Figure 65:Brazil Metal Current Sensing Resistor Revenue (2020-2032) & (US\$ Million)

Figure 66:Middle East & Africa Metal Current Sensing Resistor Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 67:Middle East & Africa Metal Current Sensing Resistor Revenue Market Share by Players in 2024

Figure 68: Middle East & Africa Metal Current Sensing Resistor Sales Market Share by Type (2020-2032)

Figure 69: Middle East & Africa Metal Current Sensing Resistor Revenue Market Share by Type (2020-2032)

Figure 70: Middle East & Africa Metal Current Sensing Resistor Sales Market Share by Application (2020-2032)

Figure 71: Middle East & Africa Metal Current Sensing Resistor Revenue Market Share by Application (2020-2032)

Figure 72: Saudi Arabia Metal Current Sensing Resistor Revenue (2020-2032) & (US\$ Million)

Figure 73: South Africa Metal Current Sensing Resistor Revenue (2020-2032) & (US\$ Million)

Figure 74: Global Metal Current Sensing Resistor Sales Market Share by Key Manufacturers in 2024

Figure 75: Global Metal Current Sensing Resistor Revenue Market Share by Key Manufacturers in 2024

Figure 76: Global Metal Current Sensing Resistor Industry Competition Landscape

Figure 77: Metal Current Sensing Resistor Industry Chain Analysis

Figure 78: Bottom-Up and Top-Down Research Methods

Figure 79: Key Interview Objectives

Figure 80: Data Cross Validation

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