

Global Manganin Shunt Resistors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Manganin Shunt Resistors market size is expected to reach \$ 1698 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

In 2025, global Manganin Shunt Resistor output reached about 11 billion units and global capacity of around 13 billion units. The average price is about USD 0.1 per unit, with gross margins near 28%. Manganin Shunt Resistors are precision low-resistance current-sensing components manufactured using manganin alloy (typically composed of approximately 84% copper, 12% manganese, and 4% nickel), a material known for its extremely low temperature coefficient of resistance (TCR), excellent long-term stability, low thermoelectric voltage against copper, and high measurement accuracy. These resistors are designed to measure high electrical currents by generating a small, precisely known voltage drop proportional to the current flowing through the circuit, making them widely used in battery management systems (BMS), smart meters, power supplies, industrial automation equipment, renewable energy systems, electric vehicles (EVs), telecommunications infrastructure, aerospace electronics, and precision instrumentation. The supply chain begins with upstream suppliers of copper, manganese, nickel, and specialty alloy materials, followed by alloy melting and rolling companies producing manganin strips, wires, and sheets. Midstream manufacturers fabricate shunt elements through stamping, laser cutting, welding, machining, and resistance calibration processes, then integrate them into surface-mount, through-hole, busbar-type, or custom current-sensing assemblies. Downstream customers include power electronics manufacturers, EV battery pack producers, energy storage system suppliers, smart grid equipment manufacturers, industrial control system integrators, and measurement instrument companies, where manganin shunt resistors serve as critical components for accurate current monitoring, power management, protection,

and energy metering applications.

This report studies the global Manganin Shunt Resistors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Manganin Shunt Resistors and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Manganin Shunt Resistors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Manganin Shunt Resistors total production and demand, 2021-2032, (Million Units)

Global Manganin Shunt Resistors total production value, 2021-2032, (USD Million)

Global Manganin Shunt Resistors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Manganin Shunt Resistors consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Manganin Shunt Resistors domestic production, consumption, key domestic manufacturers and share

Global Manganin Shunt Resistors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Manganin Shunt Resistors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Manganin Shunt Resistors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Manganin Shunt Resistors market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Isabellenh?tte Heusler, TT Electronics, Bourns, Riedon, Ohmite, Vishay Intertechnology, VPG Foil Resistors, Stackpole Electronics, KOA Speer Electronics, ROHM Semiconductor, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices

used in analyzing the World Manganin Shunt Resistors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Manganin Shunt Resistors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Manganin Shunt Resistors Market, Segmentation by Type:

Strip Shunt Resistors

Busbar Shunt Resistors

Wire Shunt Resistors

Plate Shunt Resistors

Kelvin Shunt Resistors

Global Manganin Shunt Resistors Market, Segmentation by Resistance Value:

5 m?

Global Manganin Shunt Resistors Market, Segmentation by Application:

Electric Vehicles

Energy Storage Systems

Utility Infrastructure

Industrial Automation

Aerospace & Defense

Others

Companies Profiled:

Isabellenh?tte Heusler

TT Electronics

Bourns

Riedon

Ohmite

Vishay Intertechnology

VPG Foil Resistors

Stackpole Electronics

KOA Speer Electronics

ROHM Semiconductor

Yageo

Cyntec

TA-I Technology

Viking Tech

Token Electronics

Ever Ohms Technology

Walsin Technology

Ralec Electronic

Fenghua Advanced Technology

Doublecircle Electronics

Key Questions Answered:

1. How big is the global Manganin Shunt Resistors market?
2. What is the demand of the global Manganin Shunt Resistors market?
3. What is the year over year growth of the global Manganin Shunt Resistors market?
4. What is the production and production value of the global Manganin Shunt Resistors market?
5. Who are the key producers in the global Manganin Shunt Resistors market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Manganin Shunt Resistors Introduction
- 1.2 World Manganin Shunt Resistors Supply & Forecast
 - 1.2.1 World Manganin Shunt Resistors Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Manganin Shunt Resistors Production (2021-2032)
 - 1.2.3 World Manganin Shunt Resistors Pricing Trends (2021-2032)
- 1.3 World Manganin Shunt Resistors Production by Region (Based on Production Site)
 - 1.3.1 World Manganin Shunt Resistors Production Value by Region (2021-2032)
 - 1.3.2 World Manganin Shunt Resistors Production by Region (2021-2032)
 - 1.3.3 World Manganin Shunt Resistors Average Price by Region (2021-2032)
 - 1.3.4 North America Manganin Shunt Resistors Production (2021-2032)
 - 1.3.5 Europe Manganin Shunt Resistors Production (2021-2032)
 - 1.3.6 China Manganin Shunt Resistors Production (2021-2032)
 - 1.3.7 Japan Manganin Shunt Resistors Production (2021-2032)
 - 1.3.8 South Korea Manganin Shunt Resistors Production (2021-2032)
 - 1.3.9 Southeast Asia Manganin Shunt Resistors Production (2021-2032)
 - 1.3.10 China Taiwan Manganin Shunt Resistors Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Manganin Shunt Resistors Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Manganin Shunt Resistors Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Manganin Shunt Resistors Demand (2021-2032)
- 2.2 World Manganin Shunt Resistors Consumption by Region
 - 2.2.1 World Manganin Shunt Resistors Consumption by Region (2021-2026)
 - 2.2.2 World Manganin Shunt Resistors Consumption Forecast by Region (2027-2032)
- 2.3 United States Manganin Shunt Resistors Consumption (2021-2032)
- 2.4 China Manganin Shunt Resistors Consumption (2021-2032)
- 2.5 Europe Manganin Shunt Resistors Consumption (2021-2032)
- 2.6 Japan Manganin Shunt Resistors Consumption (2021-2032)
- 2.7 South Korea Manganin Shunt Resistors Consumption (2021-2032)
- 2.8 ASEAN Manganin Shunt Resistors Consumption (2021-2032)
- 2.9 India Manganin Shunt Resistors Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Manganin Shunt Resistors Production Value by Manufacturer (2021-2026)
- 3.2 World Manganin Shunt Resistors Production by Manufacturer (2021-2026)
- 3.3 World Manganin Shunt Resistors Average Price by Manufacturer (2021-2026)
- 3.4 Manganin Shunt Resistors Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Manganin Shunt Resistors Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Manganin Shunt Resistors in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Manganin Shunt Resistors in 2025
- 3.6 Manganin Shunt Resistors Market: Overall Company Footprint Analysis
 - 3.6.1 Manganin Shunt Resistors Market: Region Footprint
 - 3.6.2 Manganin Shunt Resistors Market: Company Product Type Footprint
 - 3.6.3 Manganin Shunt Resistors Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Manganin Shunt Resistors Production Value Comparison
 - 4.1.1 United States VS China: Manganin Shunt Resistors Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Manganin Shunt Resistors Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Manganin Shunt Resistors Production Comparison
 - 4.2.1 United States VS China: Manganin Shunt Resistors Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Manganin Shunt Resistors Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Manganin Shunt Resistors Consumption Comparison
 - 4.3.1 United States VS China: Manganin Shunt Resistors Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Manganin Shunt Resistors Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Manganin Shunt Resistors Manufacturers and Market Share,

2021-2026

4.4.1 United States Based Manganin Shunt Resistors Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Manganin Shunt Resistors Production Value (2021-2026)

4.4.3 United States Based Manufacturers Manganin Shunt Resistors Production (2021-2026)

4.5 China Based Manganin Shunt Resistors Manufacturers and Market Share

4.5.1 China Based Manganin Shunt Resistors Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Manganin Shunt Resistors Production Value (2021-2026)

4.5.3 China Based Manufacturers Manganin Shunt Resistors Production (2021-2026)

4.6 Rest of World Based Manganin Shunt Resistors Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Manganin Shunt Resistors Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Manganin Shunt Resistors Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Manganin Shunt Resistors Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Manganin Shunt Resistors Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Strip Shunt Resistors

5.2.2 Busbar Shunt Resistors

5.2.3 Wire Shunt Resistors

5.2.4 Plate Shunt Resistors

5.2.5 Kelvin Shunt Resistors

5.3 Market Segment by Type

5.3.1 World Manganin Shunt Resistors Production by Type (2021-2032)

5.3.2 World Manganin Shunt Resistors Production Value by Type (2021-2032)

5.3.3 World Manganin Shunt Resistors Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY RESISTANCE VALUE

6.1 World Manganin Shunt Resistors Market Size Overview by Resistance Value: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Resistance Value

6.2.1 5 m?

6.3 Market Segment by Resistance Value

6.3.1 World Manganin Shunt Resistors Production by Resistance Value (2021-2032)

6.3.2 World Manganin Shunt Resistors Production Value by Resistance Value (2021-2032)

6.3.3 World Manganin Shunt Resistors Average Price by Resistance Value (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Manganin Shunt Resistors Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Electric Vehicles

7.2.2 Energy Storage Systems

7.2.3 Utility Infrastructure

7.2.4 Industrial Automation

7.2.5 Aerospace & Defense

7.2.6 Others

7.3 Market Segment by Application

7.3.1 World Manganin Shunt Resistors Production by Application (2021-2032)

7.3.2 World Manganin Shunt Resistors Production Value by Application (2021-2032)

7.3.3 World Manganin Shunt Resistors Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 Isabellenh?tte Heusler

8.1.1 Isabellenh?tte Heusler Details

8.1.2 Isabellenh?tte Heusler Major Business

8.1.3 Isabellenh?tte Heusler Manganin Shunt Resistors Product and Services

8.1.4 Isabellenh?tte Heusler Manganin Shunt Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Isabellenh?tte Heusler Recent Developments/Updates

8.1.6 Isabellenh?tte Heusler Competitive Strengths & Weaknesses

8.2 TT Electronics

8.2.1 TT Electronics Details

- 8.2.2 TT Electronics Major Business
- 8.2.3 TT Electronics Manganin Shunt Resistors Product and Services
- 8.2.4 TT Electronics Manganin Shunt Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.2.5 TT Electronics Recent Developments/Updates
- 8.2.6 TT Electronics Competitive Strengths & Weaknesses
- 8.3 Bourns
 - 8.3.1 Bourns Details
 - 8.3.2 Bourns Major Business
 - 8.3.3 Bourns Manganin Shunt Resistors Product and Services
 - 8.3.4 Bourns Manganin Shunt Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.3.5 Bourns Recent Developments/Updates
 - 8.3.6 Bourns Competitive Strengths & Weaknesses
- 8.4 Riedon
 - 8.4.1 Riedon Details
 - 8.4.2 Riedon Major Business
 - 8.4.3 Riedon Manganin Shunt Resistors Product and Services
 - 8.4.4 Riedon Manganin Shunt Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.4.5 Riedon Recent Developments/Updates
 - 8.4.6 Riedon Competitive Strengths & Weaknesses
- 8.5 Ohmite
 - 8.5.1 Ohmite Details
 - 8.5.2 Ohmite Major Business
 - 8.5.3 Ohmite Manganin Shunt Resistors Product and Services
 - 8.5.4 Ohmite Manganin Shunt Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.5.5 Ohmite Recent Developments/Updates
 - 8.5.6 Ohmite Competitive Strengths & Weaknesses
- 8.6 Vishay Intertechnology
 - 8.6.1 Vishay Intertechnology Details
 - 8.6.2 Vishay Intertechnology Major Business
 - 8.6.3 Vishay Intertechnology Manganin Shunt Resistors Product and Services
 - 8.6.4 Vishay Intertechnology Manganin Shunt Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.6.5 Vishay Intertechnology Recent Developments/Updates
 - 8.6.6 Vishay Intertechnology Competitive Strengths & Weaknesses
- 8.7 VPG Foil Resistors

- 8.7.1 VPG Foil Resistors Details
- 8.7.2 VPG Foil Resistors Major Business
- 8.7.3 VPG Foil Resistors Manganin Shunt Resistors Product and Services
- 8.7.4 VPG Foil Resistors Manganin Shunt Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.7.5 VPG Foil Resistors Recent Developments/Updates
- 8.7.6 VPG Foil Resistors Competitive Strengths & Weaknesses
- 8.8 Stackpole Electronics
 - 8.8.1 Stackpole Electronics Details
 - 8.8.2 Stackpole Electronics Major Business
 - 8.8.3 Stackpole Electronics Manganin Shunt Resistors Product and Services
 - 8.8.4 Stackpole Electronics Manganin Shunt Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.8.5 Stackpole Electronics Recent Developments/Updates
 - 8.8.6 Stackpole Electronics Competitive Strengths & Weaknesses
- 8.9 KOA Speer Electronics
 - 8.9.1 KOA Speer Electronics Details
 - 8.9.2 KOA Speer Electronics Major Business
 - 8.9.3 KOA Speer Electronics Manganin Shunt Resistors Product and Services
 - 8.9.4 KOA Speer Electronics Manganin Shunt Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.9.5 KOA Speer Electronics Recent Developments/Updates
 - 8.9.6 KOA Speer Electronics Competitive Strengths & Weaknesses
- 8.10 ROHM Semiconductor
 - 8.10.1 ROHM Semiconductor Details
 - 8.10.2 ROHM Semiconductor Major Business
 - 8.10.3 ROHM Semiconductor Manganin Shunt Resistors Product and Services
 - 8.10.4 ROHM Semiconductor Manganin Shunt Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.10.5 ROHM Semiconductor Recent Developments/Updates
 - 8.10.6 ROHM Semiconductor Competitive Strengths & Weaknesses
- 8.11 Yageo
 - 8.11.1 Yageo Details
 - 8.11.2 Yageo Major Business
 - 8.11.3 Yageo Manganin Shunt Resistors Product and Services
 - 8.11.4 Yageo Manganin Shunt Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.11.5 Yageo Recent Developments/Updates
 - 8.11.6 Yageo Competitive Strengths & Weaknesses

8.12 Cyntec

8.12.1 Cyntec Details

8.12.2 Cyntec Major Business

8.12.3 Cyntec Manganin Shunt Resistors Product and Services

8.12.4 Cyntec Manganin Shunt Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.12.5 Cyntec Recent Developments/Updates

8.12.6 Cyntec Competitive Strengths & Weaknesses

8.13 TA-I Technology

8.13.1 TA-I Technology Details

8.13.2 TA-I Technology Major Business

8.13.3 TA-I Technology Manganin Shunt Resistors Product and Services

8.13.4 TA-I Technology Manganin Shunt Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.13.5 TA-I Technology Recent Developments/Updates

8.13.6 TA-I Technology Competitive Strengths & Weaknesses

8.14 Viking Tech

8.14.1 Viking Tech Details

8.14.2 Viking Tech Major Business

8.14.3 Viking Tech Manganin Shunt Resistors Product and Services

8.14.4 Viking Tech Manganin Shunt Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.14.5 Viking Tech Recent Developments/Updates

8.14.6 Viking Tech Competitive Strengths & Weaknesses

8.15 Token Electronics

8.15.1 Token Electronics Details

8.15.2 Token Electronics Major Business

8.15.3 Token Electronics Manganin Shunt Resistors Product and Services

8.15.4 Token Electronics Manganin Shunt Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.15.5 Token Electronics Recent Developments/Updates

8.15.6 Token Electronics Competitive Strengths & Weaknesses

8.16 Ever Ohms Technology

8.16.1 Ever Ohms Technology Details

8.16.2 Ever Ohms Technology Major Business

8.16.3 Ever Ohms Technology Manganin Shunt Resistors Product and Services

8.16.4 Ever Ohms Technology Manganin Shunt Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.16.5 Ever Ohms Technology Recent Developments/Updates

- 8.16.6 Ever Ohms Technology Competitive Strengths & Weaknesses
- 8.17 Walsin Technology
 - 8.17.1 Walsin Technology Details
 - 8.17.2 Walsin Technology Major Business
 - 8.17.3 Walsin Technology Manganin Shunt Resistors Product and Services
 - 8.17.4 Walsin Technology Manganin Shunt Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.17.5 Walsin Technology Recent Developments/Updates
 - 8.17.6 Walsin Technology Competitive Strengths & Weaknesses
- 8.18 Ralec Electronic
 - 8.18.1 Ralec Electronic Details
 - 8.18.2 Ralec Electronic Major Business
 - 8.18.3 Ralec Electronic Manganin Shunt Resistors Product and Services
 - 8.18.4 Ralec Electronic Manganin Shunt Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.18.5 Ralec Electronic Recent Developments/Updates
 - 8.18.6 Ralec Electronic Competitive Strengths & Weaknesses
- 8.19 Fenghua Advanced Technology
 - 8.19.1 Fenghua Advanced Technology Details
 - 8.19.2 Fenghua Advanced Technology Major Business
 - 8.19.3 Fenghua Advanced Technology Manganin Shunt Resistors Product and Services
 - 8.19.4 Fenghua Advanced Technology Manganin Shunt Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.19.5 Fenghua Advanced Technology Recent Developments/Updates
 - 8.19.6 Fenghua Advanced Technology Competitive Strengths & Weaknesses
- 8.20 Doublecircle Electronics
 - 8.20.1 Doublecircle Electronics Details
 - 8.20.2 Doublecircle Electronics Major Business
 - 8.20.3 Doublecircle Electronics Manganin Shunt Resistors Product and Services
 - 8.20.4 Doublecircle Electronics Manganin Shunt Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.20.5 Doublecircle Electronics Recent Developments/Updates
 - 8.20.6 Doublecircle Electronics Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

- 9.1 Manganin Shunt Resistors Industry Chain
- 9.2 Manganin Shunt Resistors Upstream Analysis

9.2.1 Manganin Shunt Resistors Core Raw Materials

9.2.2 Main Manufacturers of Manganin Shunt Resistors Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 Manganin Shunt Resistors Production Mode

9.6 Manganin Shunt Resistors Procurement Model

9.7 Manganin Shunt Resistors Industry Sales Model and Sales Channels

9.7.1 Manganin Shunt Resistors Sales Model

9.7.2 Manganin Shunt Resistors Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Manganin Shunt Resistors Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Manganin Shunt Resistors Production Value by Region (2021-2026) & (USD Million)

Table 3. World Manganin Shunt Resistors Production Value by Region (2027-2032) & (USD Million)

Table 4. World Manganin Shunt Resistors Production Value Market Share by Region (2021-2026)

Table 5. World Manganin Shunt Resistors Production Value Market Share by Region (2027-2032)

Table 6. World Manganin Shunt Resistors Production by Region (2021-2026) & (Million Units)

Table 7. World Manganin Shunt Resistors Production by Region (2027-2032) & (Million Units)

Table 8. World Manganin Shunt Resistors Production Market Share by Region (2021-2026)

Table 9. World Manganin Shunt Resistors Production Market Share by Region (2027-2032)

Table 10. World Manganin Shunt Resistors Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Manganin Shunt Resistors Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Manganin Shunt Resistors Major Market Trends

Table 13. World Manganin Shunt Resistors Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)

Table 14. World Manganin Shunt Resistors Consumption by Region (2021-2026) & (Million Units)

Table 15. World Manganin Shunt Resistors Consumption Forecast by Region (2027-2032) & (Million Units)

Table 16. World Manganin Shunt Resistors Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Manganin Shunt Resistors Producers in 2025

Table 18. World Manganin Shunt Resistors Production by Manufacturer (2021-2026) & (Million Units)

Table 19. Production Market Share of Key Manganin Shunt Resistors Producers in 2025

Table 20. World Manganin Shunt Resistors Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Manganin Shunt Resistors Company Evaluation Quadrant

Table 22. World Manganin Shunt Resistors Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Manganin Shunt Resistors Production Site of Key Manufacturer

Table 24. Manganin Shunt Resistors Market: Company Product Type Footprint

Table 25. Manganin Shunt Resistors Market: Company Product Application Footprint

Table 26. Manganin Shunt Resistors Competitive Factors

Table 27. Manganin Shunt Resistors New Entrant and Capacity Expansion Plans

Table 28. Manganin Shunt Resistors Mergers & Acquisitions Activity

Table 29. United States VS China Manganin Shunt Resistors Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Manganin Shunt Resistors Production Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 31. United States VS China Manganin Shunt Resistors Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 32. United States Based Manganin Shunt Resistors Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Manganin Shunt Resistors Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Manganin Shunt Resistors Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Manganin Shunt Resistors Production (2021-2026) & (Million Units)

Table 36. United States Based Manufacturers Manganin Shunt Resistors Production Market Share (2021-2026)

Table 37. China Based Manganin Shunt Resistors Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Manganin Shunt Resistors Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Manganin Shunt Resistors Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Manganin Shunt Resistors Production, (2021-2026) & (Million Units)

Table 41. China Based Manufacturers Manganin Shunt Resistors Production Market

Share (2021-2026)

Table 42. Rest of World Based Manganin Shunt Resistors Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Manganin Shunt Resistors Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Manganin Shunt Resistors Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Manganin Shunt Resistors Production, (2021-2026) & (Million Units)

Table 46. Rest of World Based Manufacturers Manganin Shunt Resistors Production Market Share (2021-2026)

Table 47. World Manganin Shunt Resistors Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Manganin Shunt Resistors Production by Type (2021-2026) & (Million Units)

Table 49. World Manganin Shunt Resistors Production by Type (2027-2032) & (Million Units)

Table 50. World Manganin Shunt Resistors Production Value by Type (2021-2026) & (USD Million)

Table 51. World Manganin Shunt Resistors Production Value by Type (2027-2032) & (USD Million)

Table 52. World Manganin Shunt Resistors Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Manganin Shunt Resistors Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Manganin Shunt Resistors Production Value by Resistance Value, (USD Million), 2021 & 2025 & 2032

Table 55. World Manganin Shunt Resistors Production by Resistance Value (2021-2026) & (Million Units)

Table 56. World Manganin Shunt Resistors Production by Resistance Value (2027-2032) & (Million Units)

Table 57. World Manganin Shunt Resistors Production Value by Resistance Value (2021-2026) & (USD Million)

Table 58. World Manganin Shunt Resistors Production Value by Resistance Value (2027-2032) & (USD Million)

Table 59. World Manganin Shunt Resistors Average Price by Resistance Value (2021-2026) & (US\$/Unit)

Table 60. World Manganin Shunt Resistors Average Price by Resistance Value (2027-2032) & (US\$/Unit)

Table 61. World Manganin Shunt Resistors Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Manganin Shunt Resistors Production by Application (2021-2026) & (Million Units)

Table 63. World Manganin Shunt Resistors Production by Application (2027-2032) & (Million Units)

Table 64. World Manganin Shunt Resistors Production Value by Application (2021-2026) & (USD Million)

Table 65. World Manganin Shunt Resistors Production Value by Application (2027-2032) & (USD Million)

Table 66. World Manganin Shunt Resistors Average Price by Application (2021-2026) & (US\$/Unit)

Table 67. World Manganin Shunt Resistors Average Price by Application (2027-2032) & (US\$/Unit)

Table 68. Isabellenh?tte Heusler Basic Information, Manufacturing Base and Competitors

Table 69. Isabellenh?tte Heusler Major Business

Table 70. Isabellenh?tte Heusler Manganin Shunt Resistors Product and Services

Table 71. Isabellenh?tte Heusler Manganin Shunt Resistors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Isabellenh?tte Heusler Recent Developments/Updates

Table 73. Isabellenh?tte Heusler Competitive Strengths & Weaknesses

Table 74. TT Electronics Basic Information, Manufacturing Base and Competitors

Table 75. TT Electronics Major Business

Table 76. TT Electronics Manganin Shunt Resistors Product and Services

Table 77. TT Electronics Manganin Shunt Resistors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. TT Electronics Recent Developments/Updates

Table 79. TT Electronics Competitive Strengths & Weaknesses

Table 80. Bourns Basic Information, Manufacturing Base and Competitors

Table 81. Bourns Major Business

Table 82. Bourns Manganin Shunt Resistors Product and Services

Table 83. Bourns Manganin Shunt Resistors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Bourns Recent Developments/Updates

Table 85. Bourns Competitive Strengths & Weaknesses

Table 86. Riedon Basic Information, Manufacturing Base and Competitors

Table 87. Riedon Major Business

Table 88. Riedon Manganin Shunt Resistors Product and Services

Table 89. Riedon Manganin Shunt Resistors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Riedon Recent Developments/Updates

Table 91. Riedon Competitive Strengths & Weaknesses

Table 92. Ohmite Basic Information, Manufacturing Base and Competitors

Table 93. Ohmite Major Business

Table 94. Ohmite Manganin Shunt Resistors Product and Services

Table 95. Ohmite Manganin Shunt Resistors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. Ohmite Recent Developments/Updates

Table 97. Ohmite Competitive Strengths & Weaknesses

Table 98. Vishay Intertechnology Basic Information, Manufacturing Base and Competitors

Table 99. Vishay Intertechnology Major Business

Table 100. Vishay Intertechnology Manganin Shunt Resistors Product and Services

Table 101. Vishay Intertechnology Manganin Shunt Resistors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. Vishay Intertechnology Recent Developments/Updates

Table 103. Vishay Intertechnology Competitive Strengths & Weaknesses

Table 104. VPG Foil Resistors Basic Information, Manufacturing Base and Competitors

Table 105. VPG Foil Resistors Major Business

Table 106. VPG Foil Resistors Manganin Shunt Resistors Product and Services

Table 107. VPG Foil Resistors Manganin Shunt Resistors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. VPG Foil Resistors Recent Developments/Updates

Table 109. VPG Foil Resistors Competitive Strengths & Weaknesses

Table 110. Stackpole Electronics Basic Information, Manufacturing Base and Competitors

Table 111. Stackpole Electronics Major Business

Table 112. Stackpole Electronics Manganin Shunt Resistors Product and Services

Table 113. Stackpole Electronics Manganin Shunt Resistors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 114. Stackpole Electronics Recent Developments/Updates

Table 115. Stackpole Electronics Competitive Strengths & Weaknesses

Table 116. KOA Speer Electronics Basic Information, Manufacturing Base and Competitors

Table 117. KOA Speer Electronics Major Business

Table 118. KOA Speer Electronics Manganin Shunt Resistors Product and Services

Table 119. KOA Speer Electronics Manganin Shunt Resistors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. KOA Speer Electronics Recent Developments/Updates

Table 121. KOA Speer Electronics Competitive Strengths & Weaknesses

Table 122. ROHM Semiconductor Basic Information, Manufacturing Base and Competitors

Table 123. ROHM Semiconductor Major Business

Table 124. ROHM Semiconductor Manganin Shunt Resistors Product and Services

Table 125. ROHM Semiconductor Manganin Shunt Resistors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. ROHM Semiconductor Recent Developments/Updates

Table 127. ROHM Semiconductor Competitive Strengths & Weaknesses

Table 128. Yageo Basic Information, Manufacturing Base and Competitors

Table 129. Yageo Major Business

Table 130. Yageo Manganin Shunt Resistors Product and Services

Table 131. Yageo Manganin Shunt Resistors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. Yageo Recent Developments/Updates

Table 133. Yageo Competitive Strengths & Weaknesses

Table 134. Cyntec Basic Information, Manufacturing Base and Competitors

Table 135. Cyntec Major Business

Table 136. Cyntec Manganin Shunt Resistors Product and Services

Table 137. Cyntec Manganin Shunt Resistors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 138. Cyntec Recent Developments/Updates

Table 139. Cyntec Competitive Strengths & Weaknesses

Table 140. TA-I Technology Basic Information, Manufacturing Base and Competitors

Table 141. TA-I Technology Major Business

Table 142. TA-I Technology Manganin Shunt Resistors Product and Services

Table 143. TA-I Technology Manganin Shunt Resistors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 144. TA-I Technology Recent Developments/Updates

Table 145. TA-I Technology Competitive Strengths & Weaknesses

Table 146. Viking Tech Basic Information, Manufacturing Base and Competitors

Table 147. Viking Tech Major Business

Table 148. Viking Tech Manganin Shunt Resistors Product and Services

Table 149. Viking Tech Manganin Shunt Resistors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 150. Viking Tech Recent Developments/Updates

Table 151. Viking Tech Competitive Strengths & Weaknesses

Table 152. Token Electronics Basic Information, Manufacturing Base and Competitors

Table 153. Token Electronics Major Business

Table 154. Token Electronics Manganin Shunt Resistors Product and Services

Table 155. Token Electronics Manganin Shunt Resistors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 156. Token Electronics Recent Developments/Updates

Table 157. Token Electronics Competitive Strengths & Weaknesses

Table 158. Ever Ohms Technology Basic Information, Manufacturing Base and Competitors

Table 159. Ever Ohms Technology Major Business

Table 160. Ever Ohms Technology Manganin Shunt Resistors Product and Services

Table 161. Ever Ohms Technology Manganin Shunt Resistors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 162. Ever Ohms Technology Recent Developments/Updates

Table 163. Ever Ohms Technology Competitive Strengths & Weaknesses

Table 164. Walsin Technology Basic Information, Manufacturing Base and Competitors

Table 165. Walsin Technology Major Business

Table 166. Walsin Technology Manganin Shunt Resistors Product and Services

Table 167. Walsin Technology Manganin Shunt Resistors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 168. Walsin Technology Recent Developments/Updates

Table 169. Walsin Technology Competitive Strengths & Weaknesses

Table 170. Ralec Electronic Basic Information, Manufacturing Base and Competitors

Table 171. Ralec Electronic Major Business

Table 172. Ralec Electronic Manganin Shunt Resistors Product and Services

Table 173. Ralec Electronic Manganin Shunt Resistors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 174. Ralec Electronic Recent Developments/Updates

Table 175. Ralec Electronic Competitive Strengths & Weaknesses

Table 176. Fenghua Advanced Technology Basic Information, Manufacturing Base and Competitors

Table 177. Fenghua Advanced Technology Major Business

Table 178. Fenghua Advanced Technology Manganin Shunt Resistors Product and Services

Table 179. Fenghua Advanced Technology Manganin Shunt Resistors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 180. Fenghua Advanced Technology Recent Developments/Updates

Table 181. Fenghua Advanced Technology Competitive Strengths & Weaknesses

Table 182. Doublecircle Electronics Basic Information, Manufacturing Base and Competitors

Table 183. Doublecircle Electronics Major Business

Table 184. Doublecircle Electronics Manganin Shunt Resistors Product and Services

Table 185. Doublecircle Electronics Manganin Shunt Resistors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 186. Doublecircle Electronics Recent Developments/Updates

Table 187. Doublecircle Electronics Competitive Strengths & Weaknesses

Table 188. Global Key Players of Manganin Shunt Resistors Upstream (Raw Materials)

Table 189. Global Manganin Shunt Resistors Typical Customers

Table 190. Manganin Shunt Resistors Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Manganin Shunt Resistors Picture

Figure 2. World Manganin Shunt Resistors Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Manganin Shunt Resistors Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Manganin Shunt Resistors Production (2021-2032) & (Million Units)

Figure 5. World Manganin Shunt Resistors Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Manganin Shunt Resistors Production Value Market Share by Region (2021-2032)

Figure 7. World Manganin Shunt Resistors Production Market Share by Region (2021-2032)

Figure 8. North America Manganin Shunt Resistors Production (2021-2032) & (Million Units)

Figure 9. Europe Manganin Shunt Resistors Production (2021-2032) & (Million Units)

Figure 10. China Manganin Shunt Resistors Production (2021-2032) & (Million Units)

Figure 11. Japan Manganin Shunt Resistors Production (2021-2032) & (Million Units)

Figure 12. South Korea Manganin Shunt Resistors Production (2021-2032) & (Million Units)

Figure 13. Southeast Asia Manganin Shunt Resistors Production (2021-2032) & (Million Units)

Figure 14. China Taiwan Manganin Shunt Resistors Production (2021-2032) & (Million Units)

Figure 15. Manganin Shunt Resistors Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World Manganin Shunt Resistors Consumption (2021-2032) & (Million Units)

Figure 18. World Manganin Shunt Resistors Consumption Market Share by Region (2021-2032)

Figure 19. United States Manganin Shunt Resistors Consumption (2021-2032) & (Million Units)

Figure 20. China Manganin Shunt Resistors Consumption (2021-2032) & (Million Units)

Figure 21. Europe Manganin Shunt Resistors Consumption (2021-2032) & (Million Units)

Figure 22. Japan Manganin Shunt Resistors Consumption (2021-2032) & (Million Units)

Figure 23. South Korea Manganin Shunt Resistors Consumption (2021-2032) & (Million Units)

Figure 24. ASEAN Manganin Shunt Resistors Consumption (2021-2032) & (Million Units)

Figure 25. India Manganin Shunt Resistors Consumption (2021-2032) & (Million Units)

Figure 26. Producer Shipments of Manganin Shunt Resistors by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Manganin Shunt Resistors Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Manganin Shunt Resistors Markets in 2025

Figure 29. United States VS China: Manganin Shunt Resistors Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Manganin Shunt Resistors Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Manganin Shunt Resistors Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Manganin Shunt Resistors Production Market Share 2025

Figure 33. China Based Manufacturers Manganin Shunt Resistors Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Manganin Shunt Resistors Production Market Share 2025

Figure 35. World Manganin Shunt Resistors Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World Manganin Shunt Resistors Production Value Market Share by Type in 2025

Figure 37. Strip Shunt Resistors

Figure 38. Busbar Shunt Resistors

Figure 39. Wire Shunt Resistors

Figure 40. Plate Shunt Resistors

Figure 41. Kelvin Shunt Resistors

Figure 42. World Manganin Shunt Resistors Production Market Share by Type (2021-2032)

Figure 43. World Manganin Shunt Resistors Production Value Market Share by Type (2021-2032)

Figure 44. World Manganin Shunt Resistors Average Price by Type (2021-2032) & (US\$/Unit)

Figure 45. World Manganin Shunt Resistors Production Value by Resistance Value, (USD Million), 2021 & 2025 & 2032

Figure 46. World Manganin Shunt Resistors Production Value Market Share by

Resistance Value in 2025

Figure 47. 5 m?

Figure 53. World Manganin Shunt Resistors Production Market Share by Resistance Value (2021-2032)

Figure 54. World Manganin Shunt Resistors Production Value Market Share by Resistance Value (2021-2032)

Figure 55. World Manganin Shunt Resistors Average Price by Resistance Value (2021-2032) & (US\$/Unit)

Figure 56. World Manganin Shunt Resistors Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Manganin Shunt Resistors Production Value Market Share by Application in 2025

Figure 58. Electric Vehicles

Figure 59. Energy Storage Systems

Figure 60. Utility Infrastructure

Figure 61. Industrial Automation

Figure 62. Aerospace & Defense

Figure 63. Others

Figure 64. World Manganin Shunt Resistors Production Market Share by Application (2021-2032)

Figure 65. World Manganin Shunt Resistors Production Value Market Share by Application (2021-2032)

Figure 66. World Manganin Shunt Resistors Average Price by Application (2021-2032) & (US\$/Unit)

Figure 67. Manganin Shunt Resistors Industry Chain

Figure 68. Manganin Shunt Resistors Procurement Model

Figure 69. Manganin Shunt Resistors Sales Model

Figure 70. Manganin Shunt Resistors Sales Channels, Direct Sales, and Distribution

Figure 71. Methodology

Figure 72. Research Process and Data Source

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