

Global Manganin Shunt Resistors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Manganin Shunt Resistors market size was valued at US\$ 1122 million in 2025 and is forecast to a readjusted size of US\$ 1698 million by 2032 with a CAGR of 6.1% during review period.

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

Key Features:

Global Manganin Shunt Resistors market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Manganin Shunt Resistors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Manganin Shunt Resistors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Manganin Shunt Resistors market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

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

To assess the growth potential for Manganin Shunt Resistors

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

To assess competitive factors affecting the marketplace

This report profiles key players in the global Manganin Shunt Resistors market based

on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Isabellenhütte 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.

Market Segmentation

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

Market segment by Type

Strip Shunt Resistors

Busbar Shunt Resistors

Wire Shunt Resistors

Plate Shunt Resistors

Kelvin Shunt Resistors

Market segment by Resistance Value

<50 Ω

50-100 Ω

100-500 Ω

0.5-1 mΩ

1?5 m?

>5 m?

Market segment by Application

Electric Vehicles

Energy Storage Systems

Utility Infrastructure

Industrial Automation

Aerospace & Defense

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

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

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

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

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

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Manganin Shunt Resistors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Manganin Shunt Resistors, with price, sales quantity, revenue, and global market share of Manganin Shunt Resistors from 2021 to 2026.

Chapter 3, the Manganin Shunt Resistors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Manganin Shunt Resistors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Manganin Shunt Resistors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Manganin Shunt Resistors.

Chapter 14 and 15, to describe Manganin Shunt Resistors sales channel, distributors, customers, research findings and conclusion.

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