

Global SMD Shunt Resistor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global SMD Shunt Resistor market size is expected to reach \$ 2028 million by 2032, rising at a market growth of 4.0% CAGR during the forecast period (2026-2032). In 2025, global SMD Shunt Resistor production reached approximately 3003.84 M Units. The average price is approximately \$0.50. SMD Shunt Resistor (Surface-Mount Device Shunt Resistor), also known as a surface-mount current sense resistor, is a very low-resistance resistor (typically in the milliohm or micro-ohm range) designed to measure current by detecting the small voltage drop across it according to Ohm's law ($V = I \times R$).

Gross Margin Levels

The gross margin of surface-mount shunt resistors exhibits the typical passive component characteristic of 'technology/structure differentiation': low-end thick-film current sensing surface-mount resistors are closer to the logic of bulk surface-mount resistors, resulting in strong price competition and profits more susceptible to capacity cycles and raw material availability; while metal strip/alloy shunts, four-terminal Kelvin, automotive-grade AEC-Q200, and high-power low-inductance structures typically possess stronger pricing power and stability due to higher barriers to entry in processes (stamping/welding/plating), consistency, and reliability verification. Using data from leading supplier companies as a reference, their disclosed gross margin is approximately 22.8% (company-wide average), while Yageo's overall gross margin has consistently been in a higher range (e.g., around 35% in TTM), and precision resistor manufacturer VPG's overall gross margin can even reach 40%+; this also reflects the difference in gross margins 'from general-purpose to high-end products.'

Industry Drivers

The core driving force on the demand side comes from the triple superposition of 'electrification + high power density + energy efficiency regulation': New energy vehicles and energy storage systems have transformed current detection from an 'optional

function' into a 'must-have for safety and lifespan management,' and the use and specifications of low-resistance, high-power, and low-temperature drift shunt resistors in BMS, OBC, DC-DC, inverters, and motor drives are increasing simultaneously; Servers/data centers and industrial power electronics are continuously increasing sampling points in multi-phase power supply, hot-swap protection, and power consumption monitoring, driving the penetration of four-terminal/low-inductance/high-stability products; At the same time, automotive-grade and reliability certifications (such as AEC-Q200) are further concentrating the supply chain towards manufacturers with materials, processes, and verification systems.

This report studies the global SMD Shunt Resistor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for SMD Shunt Resistor 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 SMD Shunt Resistor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global SMD Shunt Resistor total production and demand, 2021-2032, (M Units)

Global SMD Shunt Resistor total production value, 2021-2032, (USD Million)

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

Global SMD Shunt Resistor consumption by region & country, CAGR, 2021-2032 & (M Units)

U.S. VS China: SMD Shunt Resistor domestic production, consumption, key domestic manufacturers and share

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

Global SMD Shunt Resistor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (M Units)

Global SMD Shunt Resistor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (M Units)

This report profiles key players in the global SMD Shunt Resistor 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 Vishay Intertechnology, Yageo, Panasonic Industry, ROHM, KOA Corporation, SUSUMU, Bourns, Walsin Technology, Stackpole Electronics, Ohmite, 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 SMD Shunt Resistor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (M 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 SMD Shunt Resistor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SMD Shunt Resistor Market, Segmentation by Type:

Alloy Type

Thick Film Type

Thin Film Type

Global SMD Shunt Resistor Market, Segmentation by Package Size:

Ultra-Small Package

Small Package

Global SMD Shunt Resistor Market, Segmentation by Power Specifications:

Micro Power (0.125w-0.5w)

Small to Medium Power (1w-10w)

High Power (15w-50w)

Global SMD Shunt Resistor Market, Segmentation by Application:

Automotive and Electrification

Industrial Power Electronics

Consumer Electronics

Others

Companies Profiled:

Vishay Intertechnology

Yageo

Panasonic Industry

ROHM

KOA Corporation

SUSUMU

Bourns

Walsin Technology

Stackpole Electronics

Ohmite

Isabellenh?tte

Cyntec

TA-I Technology

Viking Tech

RALEC

UniOhm

Ever Ohms

Eaton

TE Connectivity

Caddock Electronics

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World SMD Shunt Resistor Production Value by Manufacturer (2021-2026)
- 3.2 World SMD Shunt Resistor Production by Manufacturer (2021-2026)
- 3.3 World SMD Shunt Resistor Average Price by Manufacturer (2021-2026)
- 3.4 SMD Shunt Resistor Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global SMD Shunt Resistor Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for SMD Shunt Resistor in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for SMD Shunt Resistor in 2025
- 3.6 SMD Shunt Resistor Market: Overall Company Footprint Analysis
 - 3.6.1 SMD Shunt Resistor Market: Region Footprint
 - 3.6.2 SMD Shunt Resistor Market: Company Product Type Footprint
 - 3.6.3 SMD Shunt Resistor 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: SMD Shunt Resistor Production Value Comparison
 - 4.1.1 United States VS China: SMD Shunt Resistor Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: SMD Shunt Resistor Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: SMD Shunt Resistor Production Comparison
 - 4.2.1 United States VS China: SMD Shunt Resistor Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: SMD Shunt Resistor Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: SMD Shunt Resistor Consumption Comparison
 - 4.3.1 United States VS China: SMD Shunt Resistor Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: SMD Shunt Resistor Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based SMD Shunt Resistor Manufacturers and Market Share, 2021-2026

4.4.1 United States Based SMD Shunt Resistor Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers SMD Shunt Resistor Production Value (2021-2026)

4.4.3 United States Based Manufacturers SMD Shunt Resistor Production (2021-2026)

4.5 China Based SMD Shunt Resistor Manufacturers and Market Share

4.5.1 China Based SMD Shunt Resistor Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers SMD Shunt Resistor Production Value (2021-2026)

4.5.3 China Based Manufacturers SMD Shunt Resistor Production (2021-2026)

4.6 Rest of World Based SMD Shunt Resistor Manufacturers and Market Share, 2021-2026

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

4.6.2 Rest of World Based Manufacturers SMD Shunt Resistor Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers SMD Shunt Resistor Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World SMD Shunt Resistor Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Alloy Type

5.2.2 Thick Film Type

5.2.3 Thin Film Type

5.3 Market Segment by Type

5.3.1 World SMD Shunt Resistor Production by Type (2021-2032)

5.3.2 World SMD Shunt Resistor Production Value by Type (2021-2032)

5.3.3 World SMD Shunt Resistor Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PACKAGE SIZE

6.1 World SMD Shunt Resistor Market Size Overview by Package Size: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Package Size

6.2.1 Ultra-Small Package

6.2.2 Small Package

6.3 Market Segment by Package Size

- 6.3.1 World SMD Shunt Resistor Production by Package Size (2021-2032)
- 6.3.2 World SMD Shunt Resistor Production Value by Package Size (2021-2032)
- 6.3.3 World SMD Shunt Resistor Average Price by Package Size (2021-2032)

7 MARKET ANALYSIS BY POWER SPECIFICATIONS

- 7.1 World SMD Shunt Resistor Market Size Overview by Power Specifications: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Power Specifications
 - 7.2.1 Micro Power (0.125w-0.5w)
 - 7.2.2 Small to Medium Power (1w-10w)
 - 7.2.3 High Power (15w-50w)
- 7.3 Market Segment by Power Specifications
 - 7.3.1 World SMD Shunt Resistor Production by Power Specifications (2021-2032)
 - 7.3.2 World SMD Shunt Resistor Production Value by Power Specifications (2021-2032)
 - 7.3.3 World SMD Shunt Resistor Average Price by Power Specifications (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World SMD Shunt Resistor Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 Automotive and Electrification
 - 8.2.2 Industrial Power Electronics
 - 8.2.3 Consumer Electronics
 - 8.2.4 Others
- 8.3 Market Segment by Application
 - 8.3.1 World SMD Shunt Resistor Production by Application (2021-2032)
 - 8.3.2 World SMD Shunt Resistor Production Value by Application (2021-2032)
 - 8.3.3 World SMD Shunt Resistor Average Price by Application (2021-2032)

9 COMPANY PROFILES

- 9.1 Vishay Intertechnology
 - 9.1.1 Vishay Intertechnology Details
 - 9.1.2 Vishay Intertechnology Major Business
 - 9.1.3 Vishay Intertechnology SMD Shunt Resistor Product and Services
 - 9.1.4 Vishay Intertechnology SMD Shunt Resistor Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.1.5 Vishay Intertechnology Recent Developments/Updates

9.1.6 Vishay Intertechnology Competitive Strengths & Weaknesses

9.2 Yageo

9.2.1 Yageo Details

9.2.2 Yageo Major Business

9.2.3 Yageo SMD Shunt Resistor Product and Services

9.2.4 Yageo SMD Shunt Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Yageo Recent Developments/Updates

9.2.6 Yageo Competitive Strengths & Weaknesses

9.3 Panasonic Industry

9.3.1 Panasonic Industry Details

9.3.2 Panasonic Industry Major Business

9.3.3 Panasonic Industry SMD Shunt Resistor Product and Services

9.3.4 Panasonic Industry SMD Shunt Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Panasonic Industry Recent Developments/Updates

9.3.6 Panasonic Industry Competitive Strengths & Weaknesses

9.4 ROHM

9.4.1 ROHM Details

9.4.2 ROHM Major Business

9.4.3 ROHM SMD Shunt Resistor Product and Services

9.4.4 ROHM SMD Shunt Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 ROHM Recent Developments/Updates

9.4.6 ROHM Competitive Strengths & Weaknesses

9.5 KOA Corporation

9.5.1 KOA Corporation Details

9.5.2 KOA Corporation Major Business

9.5.3 KOA Corporation SMD Shunt Resistor Product and Services

9.5.4 KOA Corporation SMD Shunt Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 KOA Corporation Recent Developments/Updates

9.5.6 KOA Corporation Competitive Strengths & Weaknesses

9.6 SUSUMU

9.6.1 SUSUMU Details

9.6.2 SUSUMU Major Business

9.6.3 SUSUMU SMD Shunt Resistor Product and Services

9.6.4 SUSUMU SMD Shunt Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 SUSUMU Recent Developments/Updates

9.6.6 SUSUMU Competitive Strengths & Weaknesses

9.7 Bourns

9.7.1 Bourns Details

9.7.2 Bourns Major Business

9.7.3 Bourns SMD Shunt Resistor Product and Services

9.7.4 Bourns SMD Shunt Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Bourns Recent Developments/Updates

9.7.6 Bourns Competitive Strengths & Weaknesses

9.8 Walsin Technology

9.8.1 Walsin Technology Details

9.8.2 Walsin Technology Major Business

9.8.3 Walsin Technology SMD Shunt Resistor Product and Services

9.8.4 Walsin Technology SMD Shunt Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Walsin Technology Recent Developments/Updates

9.8.6 Walsin Technology Competitive Strengths & Weaknesses

9.9 Stackpole Electronics

9.9.1 Stackpole Electronics Details

9.9.2 Stackpole Electronics Major Business

9.9.3 Stackpole Electronics SMD Shunt Resistor Product and Services

9.9.4 Stackpole Electronics SMD Shunt Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Stackpole Electronics Recent Developments/Updates

9.9.6 Stackpole Electronics Competitive Strengths & Weaknesses

9.10 Ohmite

9.10.1 Ohmite Details

9.10.2 Ohmite Major Business

9.10.3 Ohmite SMD Shunt Resistor Product and Services

9.10.4 Ohmite SMD Shunt Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Ohmite Recent Developments/Updates

9.10.6 Ohmite Competitive Strengths & Weaknesses

9.11 Isabellenh?tte

9.11.1 Isabellenh?tte Details

9.11.2 Isabellenh?tte Major Business

- 9.11.3 Isabellenh?tte SMD Shunt Resistor Product and Services
- 9.11.4 Isabellenh?tte SMD Shunt Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 Isabellenh?tte Recent Developments/Updates
- 9.11.6 Isabellenh?tte Competitive Strengths & Weaknesses
- 9.12 Cynotec
 - 9.12.1 Cynotec Details
 - 9.12.2 Cynotec Major Business
 - 9.12.3 Cynotec SMD Shunt Resistor Product and Services
 - 9.12.4 Cynotec SMD Shunt Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Cynotec Recent Developments/Updates
 - 9.12.6 Cynotec Competitive Strengths & Weaknesses
- 9.13 TA-I Technology
 - 9.13.1 TA-I Technology Details
 - 9.13.2 TA-I Technology Major Business
 - 9.13.3 TA-I Technology SMD Shunt Resistor Product and Services
 - 9.13.4 TA-I Technology SMD Shunt Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 TA-I Technology Recent Developments/Updates
 - 9.13.6 TA-I Technology Competitive Strengths & Weaknesses
- 9.14 Viking Tech
 - 9.14.1 Viking Tech Details
 - 9.14.2 Viking Tech Major Business
 - 9.14.3 Viking Tech SMD Shunt Resistor Product and Services
 - 9.14.4 Viking Tech SMD Shunt Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Viking Tech Recent Developments/Updates
 - 9.14.6 Viking Tech Competitive Strengths & Weaknesses
- 9.15 RALEC
 - 9.15.1 RALEC Details
 - 9.15.2 RALEC Major Business
 - 9.15.3 RALEC SMD Shunt Resistor Product and Services
 - 9.15.4 RALEC SMD Shunt Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 RALEC Recent Developments/Updates
 - 9.15.6 RALEC Competitive Strengths & Weaknesses
- 9.16 UniOhm
 - 9.16.1 UniOhm Details

- 9.16.2 UniOhm Major Business
- 9.16.3 UniOhm SMD Shunt Resistor Product and Services
- 9.16.4 UniOhm SMD Shunt Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.16.5 UniOhm Recent Developments/Updates
- 9.16.6 UniOhm Competitive Strengths & Weaknesses
- 9.17 Ever Ohms
 - 9.17.1 Ever Ohms Details
 - 9.17.2 Ever Ohms Major Business
 - 9.17.3 Ever Ohms SMD Shunt Resistor Product and Services
 - 9.17.4 Ever Ohms SMD Shunt Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.17.5 Ever Ohms Recent Developments/Updates
 - 9.17.6 Ever Ohms Competitive Strengths & Weaknesses
- 9.18 Eaton
 - 9.18.1 Eaton Details
 - 9.18.2 Eaton Major Business
 - 9.18.3 Eaton SMD Shunt Resistor Product and Services
 - 9.18.4 Eaton SMD Shunt Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 Eaton Recent Developments/Updates
 - 9.18.6 Eaton Competitive Strengths & Weaknesses
- 9.19 TE Connectivity
 - 9.19.1 TE Connectivity Details
 - 9.19.2 TE Connectivity Major Business
 - 9.19.3 TE Connectivity SMD Shunt Resistor Product and Services
 - 9.19.4 TE Connectivity SMD Shunt Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.19.5 TE Connectivity Recent Developments/Updates
 - 9.19.6 TE Connectivity Competitive Strengths & Weaknesses
- 9.20 Caddock Electronics
 - 9.20.1 Caddock Electronics Details
 - 9.20.2 Caddock Electronics Major Business
 - 9.20.3 Caddock Electronics SMD Shunt Resistor Product and Services
 - 9.20.4 Caddock Electronics SMD Shunt Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.20.5 Caddock Electronics Recent Developments/Updates
 - 9.20.6 Caddock Electronics Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 SMD Shunt Resistor Industry Chain
- 10.2 SMD Shunt Resistor Upstream Analysis
 - 10.2.1 SMD Shunt Resistor Core Raw Materials
 - 10.2.2 Main Manufacturers of SMD Shunt Resistor Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 SMD Shunt Resistor Production Mode
- 10.6 SMD Shunt Resistor Procurement Model
- 10.7 SMD Shunt Resistor Industry Sales Model and Sales Channels
 - 10.7.1 SMD Shunt Resistor Sales Model
 - 10.7.2 SMD Shunt Resistor Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

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

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

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

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

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

Table 6. World SMD Shunt Resistor Production by Region (2021-2026) & (M Units)

Table 7. World SMD Shunt Resistor Production by Region (2027-2032) & (M Units)

Table 8. World SMD Shunt Resistor Production Market Share by Region (2021-2026)

Table 9. World SMD Shunt Resistor Production Market Share by Region (2027-2032)

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

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

Table 12. SMD Shunt Resistor Major Market Trends

Table 13. World SMD Shunt Resistor Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (M Units)

Table 14. World SMD Shunt Resistor Consumption by Region (2021-2026) & (M Units)

Table 15. World SMD Shunt Resistor Consumption Forecast by Region (2027-2032) & (M Units)

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

Table 17. Production Value Market Share of Key SMD Shunt Resistor Producers in 2025

Table 18. World SMD Shunt Resistor Production by Manufacturer (2021-2026) & (M Units)

Table 19. Production Market Share of Key SMD Shunt Resistor Producers in 2025

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

Table 21. Global SMD Shunt Resistor Company Evaluation Quadrant

Table 22. World SMD Shunt Resistor Industry Rank of Major Manufacturers, Based on

Production Value in 2025

Table 23. Head Office and SMD Shunt Resistor Production Site of Key Manufacturer

Table 24. SMD Shunt Resistor Market: Company Product Type Footprint

Table 25. SMD Shunt Resistor Market: Company Product Application Footprint

Table 26. SMD Shunt Resistor Competitive Factors

Table 27. SMD Shunt Resistor New Entrant and Capacity Expansion Plans

Table 28. SMD Shunt Resistor Mergers & Acquisitions Activity

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

Table 30. United States VS China SMD Shunt Resistor Production Comparison, (2021 & 2025 & 2032) & (M Units)

Table 31. United States VS China SMD Shunt Resistor Consumption Comparison, (2021 & 2025 & 2032) & (M Units)

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

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

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

Table 35. United States Based Manufacturers SMD Shunt Resistor Production (2021-2026) & (M Units)

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

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

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

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

Table 40. China Based Manufacturers SMD Shunt Resistor Production, (2021-2026) & (M Units)

Table 41. China Based Manufacturers SMD Shunt Resistor Production Market Share (2021-2026)

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

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

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

Table 45. Rest of World Based Manufacturers SMD Shunt Resistor Production, (2021-2026) & (M Units)

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

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

Table 48. World SMD Shunt Resistor Production by Type (2021-2026) & (M Units)

Table 49. World SMD Shunt Resistor Production by Type (2027-2032) & (M Units)

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

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

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

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

Table 54. World SMD Shunt Resistor Production Value by Package Size, (USD Million), 2021 & 2025 & 2032

Table 55. World SMD Shunt Resistor Production by Package Size (2021-2026) & (M Units)

Table 56. World SMD Shunt Resistor Production by Package Size (2027-2032) & (M Units)

Table 57. World SMD Shunt Resistor Production Value by Package Size (2021-2026) & (USD Million)

Table 58. World SMD Shunt Resistor Production Value by Package Size (2027-2032) & (USD Million)

Table 59. World SMD Shunt Resistor Average Price by Package Size (2021-2026) & (US\$/Unit)

Table 60. World SMD Shunt Resistor Average Price by Package Size (2027-2032) & (US\$/Unit)

Table 61. World SMD Shunt Resistor Production Value by Power Specifications, (USD Million), 2021 & 2025 & 2032

Table 62. World SMD Shunt Resistor Production by Power Specifications (2021-2026) & (M Units)

Table 63. World SMD Shunt Resistor Production by Power Specifications (2027-2032) & (M Units)

Table 64. World SMD Shunt Resistor Production Value by Power Specifications (2021-2026) & (USD Million)

Table 65. World SMD Shunt Resistor Production Value by Power Specifications (2027-2032) & (USD Million)

Table 66. World SMD Shunt Resistor Average Price by Power Specifications

(2021-2026) & (US\$/Unit)

Table 67. World SMD Shunt Resistor Average Price by Power Specifications

(2027-2032) & (US\$/Unit)

Table 68. World SMD Shunt Resistor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World SMD Shunt Resistor Production by Application (2021-2026) & (M Units)

Table 70. World SMD Shunt Resistor Production by Application (2027-2032) & (M Units)

Table 71. World SMD Shunt Resistor Production Value by Application (2021-2026) & (USD Million)

Table 72. World SMD Shunt Resistor Production Value by Application (2027-2032) & (USD Million)

Table 73. World SMD Shunt Resistor Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World SMD Shunt Resistor Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Vishay Intertechnology Basic Information, Manufacturing Base and Competitors

Table 76. Vishay Intertechnology Major Business

Table 77. Vishay Intertechnology SMD Shunt Resistor Product and Services

Table 78. Vishay Intertechnology SMD Shunt Resistor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Vishay Intertechnology Recent Developments/Updates

Table 80. Vishay Intertechnology Competitive Strengths & Weaknesses

Table 81. Yageo Basic Information, Manufacturing Base and Competitors

Table 82. Yageo Major Business

Table 83. Yageo SMD Shunt Resistor Product and Services

Table 84. Yageo SMD Shunt Resistor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Yageo Recent Developments/Updates

Table 86. Yageo Competitive Strengths & Weaknesses

Table 87. Panasonic Industry Basic Information, Manufacturing Base and Competitors

Table 88. Panasonic Industry Major Business

Table 89. Panasonic Industry SMD Shunt Resistor Product and Services

Table 90. Panasonic Industry SMD Shunt Resistor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Panasonic Industry Recent Developments/Updates

Table 92. Panasonic Industry Competitive Strengths & Weaknesses

- Table 93. ROHM Basic Information, Manufacturing Base and Competitors
- Table 94. ROHM Major Business
- Table 95. ROHM SMD Shunt Resistor Product and Services
- Table 96. ROHM SMD Shunt Resistor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. ROHM Recent Developments/Updates
- Table 98. ROHM Competitive Strengths & Weaknesses
- Table 99. KOA Corporation Basic Information, Manufacturing Base and Competitors
- Table 100. KOA Corporation Major Business
- Table 101. KOA Corporation SMD Shunt Resistor Product and Services
- Table 102. KOA Corporation SMD Shunt Resistor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. KOA Corporation Recent Developments/Updates
- Table 104. KOA Corporation Competitive Strengths & Weaknesses
- Table 105. SUSUMU Basic Information, Manufacturing Base and Competitors
- Table 106. SUSUMU Major Business
- Table 107. SUSUMU SMD Shunt Resistor Product and Services
- Table 108. SUSUMU SMD Shunt Resistor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. SUSUMU Recent Developments/Updates
- Table 110. SUSUMU Competitive Strengths & Weaknesses
- Table 111. Bourns Basic Information, Manufacturing Base and Competitors
- Table 112. Bourns Major Business
- Table 113. Bourns SMD Shunt Resistor Product and Services
- Table 114. Bourns SMD Shunt Resistor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Bourns Recent Developments/Updates
- Table 116. Bourns Competitive Strengths & Weaknesses
- Table 117. Walsin Technology Basic Information, Manufacturing Base and Competitors
- Table 118. Walsin Technology Major Business
- Table 119. Walsin Technology SMD Shunt Resistor Product and Services
- Table 120. Walsin Technology SMD Shunt Resistor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Walsin Technology Recent Developments/Updates
- Table 122. Walsin Technology Competitive Strengths & Weaknesses
- Table 123. Stackpole Electronics Basic Information, Manufacturing Base and Competitors

- Table 124. Stackpole Electronics Major Business
- Table 125. Stackpole Electronics SMD Shunt Resistor Product and Services
- Table 126. Stackpole Electronics SMD Shunt Resistor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Stackpole Electronics Recent Developments/Updates
- Table 128. Stackpole Electronics Competitive Strengths & Weaknesses
- Table 129. Ohmite Basic Information, Manufacturing Base and Competitors
- Table 130. Ohmite Major Business
- Table 131. Ohmite SMD Shunt Resistor Product and Services
- Table 132. Ohmite SMD Shunt Resistor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Ohmite Recent Developments/Updates
- Table 134. Ohmite Competitive Strengths & Weaknesses
- Table 135. Isabellenh?tte Basic Information, Manufacturing Base and Competitors
- Table 136. Isabellenh?tte Major Business
- Table 137. Isabellenh?tte SMD Shunt Resistor Product and Services
- Table 138. Isabellenh?tte SMD Shunt Resistor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Isabellenh?tte Recent Developments/Updates
- Table 140. Isabellenh?tte Competitive Strengths & Weaknesses
- Table 141. Cyntec Basic Information, Manufacturing Base and Competitors
- Table 142. Cyntec Major Business
- Table 143. Cyntec SMD Shunt Resistor Product and Services
- Table 144. Cyntec SMD Shunt Resistor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. Cyntec Recent Developments/Updates
- Table 146. Cyntec Competitive Strengths & Weaknesses
- Table 147. TA-I Technology Basic Information, Manufacturing Base and Competitors
- Table 148. TA-I Technology Major Business
- Table 149. TA-I Technology SMD Shunt Resistor Product and Services
- Table 150. TA-I Technology SMD Shunt Resistor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. TA-I Technology Recent Developments/Updates
- Table 152. TA-I Technology Competitive Strengths & Weaknesses
- Table 153. Viking Tech Basic Information, Manufacturing Base and Competitors
- Table 154. Viking Tech Major Business
- Table 155. Viking Tech SMD Shunt Resistor Product and Services

- Table 156. Viking Tech SMD Shunt Resistor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 157. Viking Tech Recent Developments/Updates
- Table 158. Viking Tech Competitive Strengths & Weaknesses
- Table 159. RALEC Basic Information, Manufacturing Base and Competitors
- Table 160. RALEC Major Business
- Table 161. RALEC SMD Shunt Resistor Product and Services
- Table 162. RALEC SMD Shunt Resistor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 163. RALEC Recent Developments/Updates
- Table 164. RALEC Competitive Strengths & Weaknesses
- Table 165. UniOhm Basic Information, Manufacturing Base and Competitors
- Table 166. UniOhm Major Business
- Table 167. UniOhm SMD Shunt Resistor Product and Services
- Table 168. UniOhm SMD Shunt Resistor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 169. UniOhm Recent Developments/Updates
- Table 170. UniOhm Competitive Strengths & Weaknesses
- Table 171. Ever Ohms Basic Information, Manufacturing Base and Competitors
- Table 172. Ever Ohms Major Business
- Table 173. Ever Ohms SMD Shunt Resistor Product and Services
- Table 174. Ever Ohms SMD Shunt Resistor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 175. Ever Ohms Recent Developments/Updates
- Table 176. Ever Ohms Competitive Strengths & Weaknesses
- Table 177. Eaton Basic Information, Manufacturing Base and Competitors
- Table 178. Eaton Major Business
- Table 179. Eaton SMD Shunt Resistor Product and Services
- Table 180. Eaton SMD Shunt Resistor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 181. Eaton Recent Developments/Updates
- Table 182. Eaton Competitive Strengths & Weaknesses
- Table 183. TE Connectivity Basic Information, Manufacturing Base and Competitors
- Table 184. TE Connectivity Major Business
- Table 185. TE Connectivity SMD Shunt Resistor Product and Services
- Table 186. TE Connectivity SMD Shunt Resistor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 187. TE Connectivity Recent Developments/Updates
- Table 188. TE Connectivity Competitive Strengths & Weaknesses

- Table 189. Caddock Electronics Basic Information, Manufacturing Base and Competitors
- Table 190. Caddock Electronics Major Business
- Table 191. Caddock Electronics SMD Shunt Resistor Product and Services
- Table 192. Caddock Electronics SMD Shunt Resistor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 193. Caddock Electronics Recent Developments/Updates
- Table 194. Caddock Electronics Competitive Strengths & Weaknesses
- Table 195. Global Key Players of SMD Shunt Resistor Upstream (Raw Materials)
- Table 196. Global SMD Shunt Resistor Typical Customers
- Table 197. SMD Shunt Resistor Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. SMD Shunt Resistor Picture

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

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

Figure 4. World SMD Shunt Resistor Production (2021-2032) & (M Units)

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

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

Figure 7. World SMD Shunt Resistor Production Market Share by Region (2021-2032)

Figure 8. North America SMD Shunt Resistor Production (2021-2032) & (M Units)

Figure 9. Europe SMD Shunt Resistor Production (2021-2032) & (M Units)

Figure 10. China SMD Shunt Resistor Production (2021-2032) & (M Units)

Figure 11. Japan SMD Shunt Resistor Production (2021-2032) & (M Units)

Figure 12. South Korea SMD Shunt Resistor Production (2021-2032) & (M Units)

Figure 13. China Taiwan SMD Shunt Resistor Production (2021-2032) & (M Units)

Figure 14. SMD Shunt Resistor Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World SMD Shunt Resistor Consumption (2021-2032) & (M Units)

Figure 17. World SMD Shunt Resistor Consumption Market Share by Region (2021-2032)

Figure 18. United States SMD Shunt Resistor Consumption (2021-2032) & (M Units)

Figure 19. China SMD Shunt Resistor Consumption (2021-2032) & (M Units)

Figure 20. Europe SMD Shunt Resistor Consumption (2021-2032) & (M Units)

Figure 21. Japan SMD Shunt Resistor Consumption (2021-2032) & (M Units)

Figure 22. South Korea SMD Shunt Resistor Consumption (2021-2032) & (M Units)

Figure 23. ASEAN SMD Shunt Resistor Consumption (2021-2032) & (M Units)

Figure 24. India SMD Shunt Resistor Consumption (2021-2032) & (M Units)

Figure 25. Producer Shipments of SMD Shunt Resistor by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for SMD Shunt Resistor Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for SMD Shunt Resistor Markets in 2025

Figure 28. United States VS China: SMD Shunt Resistor Production Value Market

Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: SMD Shunt Resistor Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: SMD Shunt Resistor Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers SMD Shunt Resistor Production Market Share 2025

Figure 32. China Based Manufacturers SMD Shunt Resistor Production Market Share 2025

Figure 33. Rest of World Based Manufacturers SMD Shunt Resistor Production Market Share 2025

Figure 34. World SMD Shunt Resistor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World SMD Shunt Resistor Production Value Market Share by Type in 2025

Figure 36. Alloy Type

Figure 37. Thick Film Type

Figure 38. Thin Film Type

Figure 39. World SMD Shunt Resistor Production Market Share by Type (2021-2032)

Figure 40. World SMD Shunt Resistor Production Value Market Share by Type (2021-2032)

Figure 41. World SMD Shunt Resistor Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World SMD Shunt Resistor Production Value by Package Size, (USD Million), 2021 & 2025 & 2032

Figure 43. World SMD Shunt Resistor Production Value Market Share by Package Size in 2025

Figure 44. Ultra-Small Package

Figure 45. Small Package

Figure 46. World SMD Shunt Resistor Production Market Share by Package Size (2021-2032)

Figure 47. World SMD Shunt Resistor Production Value Market Share by Package Size (2021-2032)

Figure 48. World SMD Shunt Resistor Average Price by Package Size (2021-2032) & (US\$/Unit)

Figure 49. World SMD Shunt Resistor Production Value by Power Specifications, (USD Million), 2021 & 2025 & 2032

Figure 50. World SMD Shunt Resistor Production Value Market Share by Power Specifications in 2025

Figure 51. Micro Power (0.125w-0.5w)

Figure 52. Small to Medium Power (1w-10w)

Figure 53. High Power (15w-50w)

Figure 54. World SMD Shunt Resistor Production Market Share by Power Specifications (2021-2032)

Figure 55. World SMD Shunt Resistor Production Value Market Share by Power Specifications (2021-2032)

Figure 56. World SMD Shunt Resistor Average Price by Power Specifications (2021-2032) & (US\$/Unit)

Figure 57. World SMD Shunt Resistor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World SMD Shunt Resistor Production Value Market Share by Application in 2025

Figure 59. Automotive and Electrification

Figure 60. Industrial Power Electronics

Figure 61. Consumer Electronics

Figure 62. Others

Figure 63. World SMD Shunt Resistor Production Market Share by Application (2021-2032)

Figure 64. World SMD Shunt Resistor Production Value Market Share by Application (2021-2032)

Figure 65. World SMD Shunt Resistor Average Price by Application (2021-2032) & (US\$/Unit)

Figure 66. SMD Shunt Resistor Industry Chain

Figure 67. SMD Shunt Resistor Procurement Model

Figure 68. SMD Shunt Resistor Sales Model

Figure 69. SMD Shunt Resistor Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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