

# Global Metal Foil SMD Resistors Market Growth 2023-2029

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## Abstracts

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According to our LPI (LP Information) latest study, the global Metal Foil SMD Resistors market size was valued at US\$ 308.1 million in 2022. With growing demand in downstream market, the Metal Foil SMD Resistors is forecast to a readjusted size of US\$ 503.3 million by 2029 with a CAGR of 7.3% during review period.

The research report highlights the growth potential of the global Metal Foil SMD Resistors market. Metal Foil SMD Resistors are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Metal Foil SMD Resistors. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Metal Foil SMD Resistors market.

Metal foil resistors are precision electronic components used in various electronic circuits to provide accurate and stable resistance values. They are known for their high precision, low temperature coefficient, and excellent long-term stability. Metal foil resistors are typically used in applications where precise resistance values are crucial, such as in instrumentation, precision measuring equipment, medical devices, and aerospace electronics.

Drivers:

**Demand for Precision Electronics:** The increasing demand for precision and accuracy in electronic devices and circuits, particularly in applications like medical equipment,

aerospace, and telecommunications, drives the need for high-precision resistors like metal foil SMD resistors.

**Growing Automation and Robotics:** The growth of automation and robotics industries requires highly accurate sensors and control systems, which, in turn, boosts the demand for precise resistors.

**Miniaturization Trends:** As electronic devices continue to shrink in size, SMD components become essential. Metal foil SMD resistors are ideal for miniaturized electronics due to their compact size and precision.

**Telecommunications and Data Centers:** The expansion of telecommunications networks and data centers necessitates precise resistors for signal conditioning and data processing equipment.

**Emerging Markets:** As emerging markets in Asia, Latin America, and Africa witness increased industrialization and technological adoption, the demand for electronic components like SMD resistors grows.

**Rising Demand for Electric Vehicles (EVs):** The EV market requires advanced electronics for battery management, power conversion, and charging systems, driving demand for high-precision resistors in this sector.

**Restrictions:**

**Price Competition:** The market for SMD resistors can be highly competitive, with pricing pressures due to the presence of multiple manufacturers. This can impact profit margins for companies.

**Technological Challenges:** Developing and manufacturing metal foil SMD resistors with extremely low tolerances and high precision can be technically challenging and costly.

**Market Saturation:** In mature markets, such as consumer electronics, the market for SMD resistors may become saturated, limiting growth opportunities.

**Material Costs:** Fluctuations in the costs of materials like metal alloys can affect production costs for metal foil resistors.

**Integration of Functions:** Some applications are moving toward integrated solutions,

where resistors are embedded within semiconductor chips or other components, potentially reducing the demand for discrete SMD resistors.

#### Key Features:

The report on Metal Foil SMD Resistors market reflects various aspects and provide valuable insights into the industry.

**Market Size and Growth:** The research report provide an overview of the current size and growth of the Metal Foil SMD Resistors market. It may include historical data, market segmentation by Type (e.g., High Precision Resistor, Precision Resistor), and regional breakdowns.

**Market Drivers and Challenges:** The report can identify and analyse the factors driving the growth of the Metal Foil SMD Resistors market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

**Competitive Landscape:** The research report provides analysis of the competitive landscape within the Metal Foil SMD Resistors market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

**Technological Developments:** The research report can delve into the latest technological developments in the Metal Foil SMD Resistors industry. This include advancements in Metal Foil SMD Resistors technology, Metal Foil SMD Resistors new entrants, Metal Foil SMD Resistors new investment, and other innovations that are shaping the future of Metal Foil SMD Resistors.

**Downstream Procumbent Preference:** The report can shed light on customer procumbent behaviour and adoption trends in the Metal Foil SMD Resistors market. It includes factors influencing customer ' purchasing decisions, preferences for Metal Foil SMD Resistors product.

**Government Policies and Incentives:** The research report analyse the impact of government policies and incentives on the Metal Foil SMD Resistors market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Metal Foil SMD Resistors market. The report also

evaluates the effectiveness of these policies in driving market growth.

**Environmental Impact and Sustainability:** The research report assess the environmental impact and sustainability aspects of the Metal Foil SMD Resistors market.

**Market Forecasts and Future Outlook:** Based on the analysis conducted, the research report provide market forecasts and outlook for the Metal Foil SMD Resistors industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

**Recommendations and Opportunities:** The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the Metal Foil SMD Resistors market.

**Market Segmentation:**

Metal Foil SMD Resistors market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

**Segmentation by type**

High Precision Resistor

Precision Resistor

**Segmentation by application**

Industrial

Aerospace and Defense

Medical

Telecommunication

Automotive

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Vishay Precision Group

Susumu

Bourns

Viking Tech

Walsin Technology

Ever Ohms

Ta-I Technology

Ohmite

TT Electronics

Tateyama Kagaku

Cyntec

MEGATRON

Stackpole Electroni

## Contents

### **1 SCOPE OF THE REPORT**

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

### **2 EXECUTIVE SUMMARY**

- 2.1 World Market Overview
  - 2.1.1 Global Metal Foil SMD Resistors Annual Sales 2018-2029
  - 2.1.2 World Current & Future Analysis for Metal Foil SMD Resistors by Geographic Region, 2018, 2022 & 2029
  - 2.1.3 World Current & Future Analysis for Metal Foil SMD Resistors by Country/Region, 2018, 2022 & 2029
- 2.2 Metal Foil SMD Resistors Segment by Type
  - 2.2.1 High Precision Resistor
  - 2.2.2 Precision Resistor
- 2.3 Metal Foil SMD Resistors Sales by Type
  - 2.3.1 Global Metal Foil SMD Resistors Sales Market Share by Type (2018-2023)
  - 2.3.2 Global Metal Foil SMD Resistors Revenue and Market Share by Type (2018-2023)
  - 2.3.3 Global Metal Foil SMD Resistors Sale Price by Type (2018-2023)
- 2.4 Metal Foil SMD Resistors Segment by Application
  - 2.4.1 Industrial
  - 2.4.2 Aerospace and Defense
  - 2.4.3 Medical
  - 2.4.4 Telecommunication
  - 2.4.5 Automotive
  - 2.4.6 Others
- 2.5 Metal Foil SMD Resistors Sales by Application
  - 2.5.1 Global Metal Foil SMD Resistors Sale Market Share by Application (2018-2023)
  - 2.5.2 Global Metal Foil SMD Resistors Revenue and Market Share by Application



(2018-2023)

2.5.3 Global Metal Foil SMD Resistors Sale Price by Application (2018-2023)

### **3 GLOBAL METAL FOIL SMD RESISTORS BY COMPANY**

3.1 Global Metal Foil SMD Resistors Breakdown Data by Company

3.1.1 Global Metal Foil SMD Resistors Annual Sales by Company (2018-2023)

3.1.2 Global Metal Foil SMD Resistors Sales Market Share by Company (2018-2023)

3.2 Global Metal Foil SMD Resistors Annual Revenue by Company (2018-2023)

3.2.1 Global Metal Foil SMD Resistors Revenue by Company (2018-2023)

3.2.2 Global Metal Foil SMD Resistors Revenue Market Share by Company  
(2018-2023)

3.3 Global Metal Foil SMD Resistors Sale Price by Company

3.4 Key Manufacturers Metal Foil SMD Resistors Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Metal Foil SMD Resistors Product Location Distribution

3.4.2 Players Metal Foil SMD Resistors Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2018-2023)

3.6 New Products and Potential Entrants

3.7 Mergers & Acquisitions, Expansion

### **4 WORLD HISTORIC REVIEW FOR METAL FOIL SMD RESISTORS BY GEOGRAPHIC REGION**

4.1 World Historic Metal Foil SMD Resistors Market Size by Geographic Region  
(2018-2023)

4.1.1 Global Metal Foil SMD Resistors Annual Sales by Geographic Region  
(2018-2023)

4.1.2 Global Metal Foil SMD Resistors Annual Revenue by Geographic Region  
(2018-2023)

4.2 World Historic Metal Foil SMD Resistors Market Size by Country/Region  
(2018-2023)

4.2.1 Global Metal Foil SMD Resistors Annual Sales by Country/Region (2018-2023)

4.2.2 Global Metal Foil SMD Resistors Annual Revenue by Country/Region  
(2018-2023)

4.3 Americas Metal Foil SMD Resistors Sales Growth

4.4 APAC Metal Foil SMD Resistors Sales Growth

4.5 Europe Metal Foil SMD Resistors Sales Growth

4.6 Middle East & Africa Metal Foil SMD Resistors Sales Growth

## **5 AMERICAS**

5.1 Americas Metal Foil SMD Resistors Sales by Country

5.1.1 Americas Metal Foil SMD Resistors Sales by Country (2018-2023)

5.1.2 Americas Metal Foil SMD Resistors Revenue by Country (2018-2023)

5.2 Americas Metal Foil SMD Resistors Sales by Type

5.3 Americas Metal Foil SMD Resistors Sales by Application

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

## **6 APAC**

6.1 APAC Metal Foil SMD Resistors Sales by Region

6.1.1 APAC Metal Foil SMD Resistors Sales by Region (2018-2023)

6.1.2 APAC Metal Foil SMD Resistors Revenue by Region (2018-2023)

6.2 APAC Metal Foil SMD Resistors Sales by Type

6.3 APAC Metal Foil SMD Resistors Sales by Application

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

## **7 EUROPE**

7.1 Europe Metal Foil SMD Resistors by Country

7.1.1 Europe Metal Foil SMD Resistors Sales by Country (2018-2023)

7.1.2 Europe Metal Foil SMD Resistors Revenue by Country (2018-2023)

7.2 Europe Metal Foil SMD Resistors Sales by Type

7.3 Europe Metal Foil SMD Resistors Sales by Application

7.4 Germany

7.5 France

- 7.6 UK
- 7.7 Italy
- 7.8 Russia

## **8 MIDDLE EAST & AFRICA**

- 8.1 Middle East & Africa Metal Foil SMD Resistors by Country
  - 8.1.1 Middle East & Africa Metal Foil SMD Resistors Sales by Country (2018-2023)
  - 8.1.2 Middle East & Africa Metal Foil SMD Resistors Revenue by Country (2018-2023)
- 8.2 Middle East & Africa Metal Foil SMD Resistors Sales by Type
- 8.3 Middle East & Africa Metal Foil SMD Resistors Sales by Application
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

## **10 MANUFACTURING COST STRUCTURE ANALYSIS**

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Metal Foil SMD Resistors
- 10.3 Manufacturing Process Analysis of Metal Foil SMD Resistors
- 10.4 Industry Chain Structure of Metal Foil SMD Resistors

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

- 11.1 Sales Channel
  - 11.1.1 Direct Channels
  - 11.1.2 Indirect Channels
- 11.2 Metal Foil SMD Resistors Distributors
- 11.3 Metal Foil SMD Resistors Customer

## **12 WORLD FORECAST REVIEW FOR METAL FOIL SMD RESISTORS BY**

## **GEOGRAPHIC REGION**

- 12.1 Global Metal Foil SMD Resistors Market Size Forecast by Region
  - 12.1.1 Global Metal Foil SMD Resistors Forecast by Region (2024-2029)
  - 12.1.2 Global Metal Foil SMD Resistors Annual Revenue Forecast by Region (2024-2029)
- 12.2 Americas Forecast by Country
- 12.3 APAC Forecast by Region
- 12.4 Europe Forecast by Country
- 12.5 Middle East & Africa Forecast by Country
- 12.6 Global Metal Foil SMD Resistors Forecast by Type
- 12.7 Global Metal Foil SMD Resistors Forecast by Application

## **13 KEY PLAYERS ANALYSIS**

- 13.1 Vishay Precision Group
  - 13.1.1 Vishay Precision Group Company Information
  - 13.1.2 Vishay Precision Group Metal Foil SMD Resistors Product Portfolios and Specifications
  - 13.1.3 Vishay Precision Group Metal Foil SMD Resistors Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.1.4 Vishay Precision Group Main Business Overview
  - 13.1.5 Vishay Precision Group Latest Developments
- 13.2 Susumu
  - 13.2.1 Susumu Company Information
  - 13.2.2 Susumu Metal Foil SMD Resistors Product Portfolios and Specifications
  - 13.2.3 Susumu Metal Foil SMD Resistors Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.2.4 Susumu Main Business Overview
  - 13.2.5 Susumu Latest Developments
- 13.3 Bourns
  - 13.3.1 Bourns Company Information
  - 13.3.2 Bourns Metal Foil SMD Resistors Product Portfolios and Specifications
  - 13.3.3 Bourns Metal Foil SMD Resistors Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.3.4 Bourns Main Business Overview
  - 13.3.5 Bourns Latest Developments
- 13.4 Viking Tech
  - 13.4.1 Viking Tech Company Information

- 13.4.2 Viking Tech Metal Foil SMD Resistors Product Portfolios and Specifications
- 13.4.3 Viking Tech Metal Foil SMD Resistors Sales, Revenue, Price and Gross Margin (2018-2023)
- 13.4.4 Viking Tech Main Business Overview
- 13.4.5 Viking Tech Latest Developments
- 13.5 Walsin Technology
  - 13.5.1 Walsin Technology Company Information
  - 13.5.2 Walsin Technology Metal Foil SMD Resistors Product Portfolios and Specifications
  - 13.5.3 Walsin Technology Metal Foil SMD Resistors Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.5.4 Walsin Technology Main Business Overview
  - 13.5.5 Walsin Technology Latest Developments
- 13.6 Ever Ohms
  - 13.6.1 Ever Ohms Company Information
  - 13.6.2 Ever Ohms Metal Foil SMD Resistors Product Portfolios and Specifications
  - 13.6.3 Ever Ohms Metal Foil SMD Resistors Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.6.4 Ever Ohms Main Business Overview
  - 13.6.5 Ever Ohms Latest Developments
- 13.7 Ta-I Technology
  - 13.7.1 Ta-I Technology Company Information
  - 13.7.2 Ta-I Technology Metal Foil SMD Resistors Product Portfolios and Specifications
  - 13.7.3 Ta-I Technology Metal Foil SMD Resistors Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.7.4 Ta-I Technology Main Business Overview
  - 13.7.5 Ta-I Technology Latest Developments
- 13.8 Ohmite
  - 13.8.1 Ohmite Company Information
  - 13.8.2 Ohmite Metal Foil SMD Resistors Product Portfolios and Specifications
  - 13.8.3 Ohmite Metal Foil SMD Resistors Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.8.4 Ohmite Main Business Overview
  - 13.8.5 Ohmite Latest Developments
- 13.9 TT Electronics
  - 13.9.1 TT Electronics Company Information
  - 13.9.2 TT Electronics Metal Foil SMD Resistors Product Portfolios and Specifications
  - 13.9.3 TT Electronics Metal Foil SMD Resistors Sales, Revenue, Price and Gross Margin (2018-2023)

- 13.9.4 TT Electronics Main Business Overview
- 13.9.5 TT Electronics Latest Developments
- 13.10 Tateyama Kagaku
  - 13.10.1 Tateyama Kagaku Company Information
  - 13.10.2 Tateyama Kagaku Metal Foil SMD Resistors Product Portfolios and Specifications
  - 13.10.3 Tateyama Kagaku Metal Foil SMD Resistors Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.10.4 Tateyama Kagaku Main Business Overview
  - 13.10.5 Tateyama Kagaku Latest Developments
- 13.11 Cyntec
  - 13.11.1 Cyntec Company Information
  - 13.11.2 Cyntec Metal Foil SMD Resistors Product Portfolios and Specifications
  - 13.11.3 Cyntec Metal Foil SMD Resistors Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.11.4 Cyntec Main Business Overview
  - 13.11.5 Cyntec Latest Developments
- 13.12 MEGATRON
  - 13.12.1 MEGATRON Company Information
  - 13.12.2 MEGATRON Metal Foil SMD Resistors Product Portfolios and Specifications
  - 13.12.3 MEGATRON Metal Foil SMD Resistors Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.12.4 MEGATRON Main Business Overview
  - 13.12.5 MEGATRON Latest Developments
- 13.13 Stackpole Electronics
  - 13.13.1 Stackpole Electronics Company Information
  - 13.13.2 Stackpole Electronics Metal Foil SMD Resistors Product Portfolios and Specifications
  - 13.13.3 Stackpole Electronics Metal Foil SMD Resistors Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.13.4 Stackpole Electronics Main Business Overview
  - 13.13.5 Stackpole Electronics Latest Developments
- 13.14 Jining Tiangeng Electric
  - 13.14.1 Jining Tiangeng Electric Company Information
  - 13.14.2 Jining Tiangeng Electric Metal Foil SMD Resistors Product Portfolios and Specifications
  - 13.14.3 Jining Tiangeng Electric Metal Foil SMD Resistors Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.14.4 Jining Tiangeng Electric Main Business Overview

- 13.14.5 Jining Tiangeng Electric Latest Developments
- 13.15 MEGATRON Elektronik
  - 13.15.1 MEGATRON Elektronik Company Information
  - 13.15.2 MEGATRON Elektronik Metal Foil SMD Resistors Product Portfolios and Specifications
  - 13.15.3 MEGATRON Elektronik Metal Foil SMD Resistors Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.15.4 MEGATRON Elektronik Main Business Overview
  - 13.15.5 MEGATRON Elektronik Latest Developments
- 13.16 Littelfuse
  - 13.16.1 Littelfuse Company Information
  - 13.16.2 Littelfuse Metal Foil SMD Resistors Product Portfolios and Specifications
  - 13.16.3 Littelfuse Metal Foil SMD Resistors Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.16.4 Littelfuse Main Business Overview
  - 13.16.5 Littelfuse Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table 1. Metal Foil SMD Resistors Annual Sales CAGR by Geographic Region (2018, 2022 & 2029) & (\$ millions)

Table 2. Metal Foil SMD Resistors Annual Sales CAGR by Country/Region (2018, 2022 & 2029) & (\$ millions)

Table 3. Major Players of High Precision Resistor

Table 4. Major Players of Precision Resistor

Table 5. Global Metal Foil SMD Resistors Sales by Type (2018-2023) & (K Units)

Table 6. Global Metal Foil SMD Resistors Sales Market Share by Type (2018-2023)

Table 7. Global Metal Foil SMD Resistors Revenue by Type (2018-2023) & (\$ million)

Table 8. Global Metal Foil SMD Resistors Revenue Market Share by Type (2018-2023)

Table 9. Global Metal Foil SMD Resistors Sale Price by Type (2018-2023) & (US\$/Unit)

Table 10. Global Metal Foil SMD Resistors Sales by Application (2018-2023) & (K Units)

Table 11. Global Metal Foil SMD Resistors Sales Market Share by Application (2018-2023)

Table 12. Global Metal Foil SMD Resistors Revenue by Application (2018-2023)

Table 13. Global Metal Foil SMD Resistors Revenue Market Share by Application (2018-2023)

Table 14. Global Metal Foil SMD Resistors Sale Price by Application (2018-2023) & (US\$/Unit)

Table 15. Global Metal Foil SMD Resistors Sales by Company (2018-2023) & (K Units)

Table 16. Global Metal Foil SMD Resistors Sales Market Share by Company (2018-2023)

Table 17. Global Metal Foil SMD Resistors Revenue by Company (2018-2023) (\$ Millions)

Table 18. Global Metal Foil SMD Resistors Revenue Market Share by Company (2018-2023)

Table 19. Global Metal Foil SMD Resistors Sale Price by Company (2018-2023) & (US\$/Unit)

Table 20. Key Manufacturers Metal Foil SMD Resistors Producing Area Distribution and Sales Area

Table 21. Players Metal Foil SMD Resistors Products Offered

Table 22. Metal Foil SMD Resistors Concentration Ratio (CR3, CR5 and CR10) & (2018-2023)

Table 23. New Products and Potential Entrants



Table 24. Mergers & Acquisitions, Expansion

Table 25. Global Metal Foil SMD Resistors Sales by Geographic Region (2018-2023) & (K Units)

Table 26. Global Metal Foil SMD Resistors Sales Market Share Geographic Region (2018-2023)

Table 27. Global Metal Foil SMD Resistors Revenue by Geographic Region (2018-2023) & (\$ millions)

Table 28. Global Metal Foil SMD Resistors Revenue Market Share by Geographic Region (2018-2023)

Table 29. Global Metal Foil SMD Resistors Sales by Country/Region (2018-2023) & (K Units)

Table 30. Global Metal Foil SMD Resistors Sales Market Share by Country/Region (2018-2023)

Table 31. Global Metal Foil SMD Resistors Revenue by Country/Region (2018-2023) & (\$ millions)

Table 32. Global Metal Foil SMD Resistors Revenue Market Share by Country/Region (2018-2023)

Table 33. Americas Metal Foil SMD Resistors Sales by Country (2018-2023) & (K Units)

Table 34. Americas Metal Foil SMD Resistors Sales Market Share by Country (2018-2023)

Table 35. Americas Metal Foil SMD Resistors Revenue by Country (2018-2023) & (\$ Millions)

Table 36. Americas Metal Foil SMD Resistors Revenue Market Share by Country (2018-2023)

Table 37. Americas Metal Foil SMD Resistors Sales by Type (2018-2023) & (K Units)

Table 38. Americas Metal Foil SMD Resistors Sales by Application (2018-2023) & (K Units)

Table 39. APAC Metal Foil SMD Resistors Sales by Region (2018-2023) & (K Units)

Table 40. APAC Metal Foil SMD Resistors Sales Market Share by Region (2018-2023)

Table 41. APAC Metal Foil SMD Resistors Revenue by Region (2018-2023) & (\$ Millions)

Table 42. APAC Metal Foil SMD Resistors Revenue Market Share by Region (2018-2023)

Table 43. APAC Metal Foil SMD Resistors Sales by Type (2018-2023) & (K Units)

Table 44. APAC Metal Foil SMD Resistors Sales by Application (2018-2023) & (K Units)

Table 45. Europe Metal Foil SMD Resistors Sales by Country (2018-2023) & (K Units)

Table 46. Europe Metal Foil SMD Resistors Sales Market Share by Country (2018-2023)

Table 47. Europe Metal Foil SMD Resistors Revenue by Country (2018-2023) & (\$

Millions)

Table 48. Europe Metal Foil SMD Resistors Revenue Market Share by Country (2018-2023)

Table 49. Europe Metal Foil SMD Resistors Sales by Type (2018-2023) & (K Units)

Table 50. Europe Metal Foil SMD Resistors Sales by Application (2018-2023) & (K Units)

Table 51. Middle East & Africa Metal Foil SMD Resistors Sales by Country (2018-2023) & (K Units)

Table 52. Middle East & Africa Metal Foil SMD Resistors Sales Market Share by Country (2018-2023)

Table 53. Middle East & Africa Metal Foil SMD Resistors Revenue by Country (2018-2023) & (\$ Millions)

Table 54. Middle East & Africa Metal Foil SMD Resistors Revenue Market Share by Country (2018-2023)

Table 55. Middle East & Africa Metal Foil SMD Resistors Sales by Type (2018-2023) & (K Units)

Table 56. Middle East & Africa Metal Foil SMD Resistors Sales by Application (2018-2023) & (K Units)

Table 57. Key Market Drivers & Growth Opportunities of Metal Foil SMD Resistors

Table 58. Key Market Challenges & Risks of Metal Foil SMD Resistors

Table 59. Key Industry Trends of Metal Foil SMD Resistors

Table 60. Metal Foil SMD Resistors Raw Material

Table 61. Key Suppliers of Raw Materials

Table 62. Metal Foil SMD Resistors Distributors List

Table 63. Metal Foil SMD Resistors Customer List

Table 64. Global Metal Foil SMD Resistors Sales Forecast by Region (2024-2029) & (K Units)

Table 65. Global Metal Foil SMD Resistors Revenue Forecast by Region (2024-2029) & (\$ millions)

Table 66. Americas Metal Foil SMD Resistors Sales Forecast by Country (2024-2029) & (K Units)

Table 67. Americas Metal Foil SMD Resistors Revenue Forecast by Country (2024-2029) & (\$ millions)

Table 68. APAC Metal Foil SMD Resistors Sales Forecast by Region (2024-2029) & (K Units)

Table 69. APAC Metal Foil SMD Resistors Revenue Forecast by Region (2024-2029) & (\$ millions)

Table 70. Europe Metal Foil SMD Resistors Sales Forecast by Country (2024-2029) & (K Units)

Table 71. Europe Metal Foil SMD Resistors Revenue Forecast by Country (2024-2029) & (\$ millions)

Table 72. Middle East & Africa Metal Foil SMD Resistors Sales Forecast by Country (2024-2029) & (K Units)

Table 73. Middle East & Africa Metal Foil SMD Resistors Revenue Forecast by Country (2024-2029) & (\$ millions)

Table 74. Global Metal Foil SMD Resistors Sales Forecast by Type (2024-2029) & (K Units)

Table 75. Global Metal Foil SMD Resistors Revenue Forecast by Type (2024-2029) & (\$ Millions)

Table 76. Global Metal Foil SMD Resistors Sales Forecast by Application (2024-2029) & (K Units)

Table 77. Global Metal Foil SMD Resistors Revenue Forecast by Application (2024-2029) & (\$ Millions)

Table 78. Vishay Precision Group Basic Information, Metal Foil SMD Resistors Manufacturing Base, Sales Area and Its Competitors

Table 79. Vishay Precision Group Metal Foil SMD Resistors Product Portfolios and Specifications

Table 80. Vishay Precision Group Metal Foil SMD Resistors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 81. Vishay Precision Group Main Business

Table 82. Vishay Precision Group Latest Developments

Table 83. Susumu Basic Information, Metal Foil SMD Resistors Manufacturing Base, Sales Area and Its Competitors

Table 84. Susumu Metal Foil SMD Resistors Product Portfolios and Specifications

Table 85. Susumu Metal Foil SMD Resistors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 86. Susumu Main Business

Table 87. Susumu Latest Developments

Table 88. Bourns Basic Information, Metal Foil SMD Resistors Manufacturing Base, Sales Area and Its Competitors

Table 89. Bourns Metal Foil SMD Resistors Product Portfolios and Specifications

Table 90. Bourns Metal Foil SMD Resistors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 91. Bourns Main Business

Table 92. Bourns Latest Developments

Table 93. Viking Tech Basic Information, Metal Foil SMD Resistors Manufacturing Base, Sales Area and Its Competitors

Table 94. Viking Tech Metal Foil SMD Resistors Product Portfolios and Specifications

Table 95. Viking Tech Metal Foil SMD Resistors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 96. Viking Tech Main Business

Table 97. Viking Tech Latest Developments

Table 98. Walsin Technology Basic Information, Metal Foil SMD Resistors Manufacturing Base, Sales Area and Its Competitors

Table 99. Walsin Technology Metal Foil SMD Resistors Product Portfolios and Specifications

Table 100. Walsin Technology Metal Foil SMD Resistors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 101. Walsin Technology Main Business

Table 102. Walsin Technology Latest Developments

Table 103. Ever Ohms Basic Information, Metal Foil SMD Resistors Manufacturing Base, Sales Area and Its Competitors

Table 104. Ever Ohms Metal Foil SMD Resistors Product Portfolios and Specifications

Table 105. Ever Ohms Metal Foil SMD Resistors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 106. Ever Ohms Main Business

Table 107. Ever Ohms Latest Developments

Table 108. Ta-I Technology Basic Information, Metal Foil SMD Resistors Manufacturing Base, Sales Area and Its Competitors

Table 109. Ta-I Technology Metal Foil SMD Resistors Product Portfolios and Specifications

Table 110. Ta-I Technology Metal Foil SMD Resistors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 111. Ta-I Technology Main Business

Table 112. Ta-I Technology Latest Developments

Table 113. Ohmite Basic Information, Metal Foil SMD Resistors Manufacturing Base, Sales Area and Its Competitors

Table 114. Ohmite Metal Foil SMD Resistors Product Portfolios and Specifications

Table 115. Ohmite Metal Foil SMD Resistors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 116. Ohmite Main Business

Table 117. Ohmite Latest Developments

Table 118. TT Electronics Basic Information, Metal Foil SMD Resistors Manufacturing Base, Sales Area and Its Competitors

Table 119. TT Electronics Metal Foil SMD Resistors Product Portfolios and Specifications

Table 120. TT Electronics Metal Foil SMD Resistors Sales (K Units), Revenue (\$

Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 121. TT Electronics Main Business

Table 122. TT Electronics Latest Developments

Table 123. Tateyama Kagaku Basic Information, Metal Foil SMD Resistors Manufacturing Base, Sales Area and Its Competitors

Table 124. Tateyama Kagaku Metal Foil SMD Resistors Product Portfolios and Specifications

Table 125. Tateyama Kagaku Metal Foil SMD Resistors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 126. Tateyama Kagaku Main Business

Table 127. Tateyama Kagaku Latest Developments

Table 128. Cyntec Basic Information, Metal Foil SMD Resistors Manufacturing Base, Sales Area and Its Competitors

Table 129. Cyntec Metal Foil SMD Resistors Product Portfolios and Specifications

Table 130. Cyntec Metal Foil SMD Resistors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 131. Cyntec Main Business

Table 132. Cyntec Latest Developments

Table 133. MEGATRON Basic Information, Metal Foil SMD Resistors Manufacturing Base, Sales Area and Its Competitors

Table 134. MEGATRON Metal Foil SMD Resistors Product Portfolios and Specifications

Table 135. MEGATRON Metal Foil SMD Resistors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 136. MEGATRON Main Business

Table 137. MEGATRON Latest Developments

Table 138. Stackpole Electronics Basic Information, Metal Foil SMD Resistors Manufacturing Base, Sales Area and Its Competitors

Table 139. Stackpole Electronics Metal Foil SMD Resistors Product Portfolios and Specifications

Table 140. Stackpole Electronics Metal Foil SMD Resistors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 141. Stackpole Electronics Main Business

Table 142. Stackpole Electronics Latest Developments

Table 143. Jining Tiangeng Electric Basic Information, Metal Foil SMD Resistors Manufacturing Base, Sales Area and Its Competitors

Table 144. Jining Tiangeng Electric Metal Foil SMD Resistors Product Portfolios and Specifications

Table 145. Jining Tiangeng Electric Metal Foil SMD Resistors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 146. Jining Tiangeng Electric Main Business

Table 147. Jining Tiangeng Electric Latest Developments

Table 148. MEGATRON Elektronik Basic Information, Metal Foil SMD Resistors Manufacturing Base, Sales Area and Its Competitors

Table 149. MEGATRON Elektronik Metal Foil SMD Resistors Product Portfolios and Specifications

Table 150. MEGATRON Elektronik Metal Foil SMD Resistors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 151. MEGATRON Elektronik Main Business

Table 152. MEGATRON Elektronik Latest Developments

Table 153. Littelfuse Basic Information, Metal Foil SMD Resistors Manufacturing Base, Sales Area and Its Competitors

Table 154. Littelfuse Metal Foil SMD Resistors Product Portfolios and Specifications

Table 155. Littelfuse Metal Foil SMD Resistors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 156. Littelfuse Main Business

Table 157. Littelfuse Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Metal Foil SMD Resistors
- Figure 2. Metal Foil SMD Resistors Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Metal Foil SMD Resistors Sales Growth Rate 2018-2029 (K Units)
- Figure 7. Global Metal Foil SMD Resistors Revenue Growth Rate 2018-2029 (\$ Millions)
- Figure 8. Metal Foil SMD Resistors Sales by Region (2018, 2022 & 2029) & (\$ Millions)
- Figure 9. Product Picture of High Precision Resistor
- Figure 10. Product Picture of Precision Resistor
- Figure 11. Global Metal Foil SMD Resistors Sales Market Share by Type in 2022
- Figure 12. Global Metal Foil SMD Resistors Revenue Market Share by Type (2018-2023)
- Figure 13. Metal Foil SMD Resistors Consumed in Industrial
- Figure 14. Global Metal Foil SMD Resistors Market: Industrial (2018-2023) & (K Units)
- Figure 15. Metal Foil SMD Resistors Consumed in Aerospace and Defense
- Figure 16. Global Metal Foil SMD Resistors Market: Aerospace and Defense (2018-2023) & (K Units)
- Figure 17. Metal Foil SMD Resistors Consumed in Medical
- Figure 18. Global Metal Foil SMD Resistors Market: Medical (2018-2023) & (K Units)
- Figure 19. Metal Foil SMD Resistors Consumed in Telecommunication
- Figure 20. Global Metal Foil SMD Resistors Market: Telecommunication (2018-2023) & (K Units)
- Figure 21. Metal Foil SMD Resistors Consumed in Automotive
- Figure 22. Global Metal Foil SMD Resistors Market: Automotive (2018-2023) & (K Units)
- Figure 23. Metal Foil SMD Resistors Consumed in Others
- Figure 24. Global Metal Foil SMD Resistors Market: Others (2018-2023) & (K Units)
- Figure 25. Global Metal Foil SMD Resistors Sales Market Share by Application (2022)
- Figure 26. Global Metal Foil SMD Resistors Revenue Market Share by Application in 2022
- Figure 27. Metal Foil SMD Resistors Sales Market by Company in 2022 (K Units)
- Figure 28. Global Metal Foil SMD Resistors Sales Market Share by Company in 2022
- Figure 29. Metal Foil SMD Resistors Revenue Market by Company in 2022 (\$ Million)
- Figure 30. Global Metal Foil SMD Resistors Revenue Market Share by Company in

2022

Figure 31. Global Metal Foil SMD Resistors Sales Market Share by Geographic Region (2018-2023)

Figure 32. Global Metal Foil SMD Resistors Revenue Market Share by Geographic Region in 2022

Figure 33. Americas Metal Foil SMD Resistors Sales 2018-2023 (K Units)

Figure 34. Americas Metal Foil SMD Resistors Revenue 2018-2023 (\$ Millions)

Figure 35. APAC Metal Foil SMD Resistors Sales 2018-2023 (K Units)

Figure 36. APAC Metal Foil SMD Resistors Revenue 2018-2023 (\$ Millions)

Figure 37. Europe Metal Foil SMD Resistors Sales 2018-2023 (K Units)

Figure 38. Europe Metal Foil SMD Resistors Revenue 2018-2023 (\$ Millions)

Figure 39. Middle East & Africa Metal Foil SMD Resistors Sales 2018-2023 (K Units)

Figure 40. Middle East & Africa Metal Foil SMD Resistors Revenue 2018-2023 (\$ Millions)

Figure 41. Americas Metal Foil SMD Resistors Sales Market Share by Country in 2022

Figure 42. Americas Metal Foil SMD Resistors Revenue Market Share by Country in 2022

Figure 43. Americas Metal Foil SMD Resistors Sales Market Share by Type (2018-2023)

Figure 44. Americas Metal Foil SMD Resistors Sales Market Share by Application (2018-2023)

Figure 45. United States Metal Foil SMD Resistors Revenue Growth 2018-2023 (\$ Millions)

Figure 46. Canada Metal Foil SMD Resistors Revenue Growth 2018-2023 (\$ Millions)

Figure 47. Mexico Metal Foil SMD Resistors Revenue Growth 2018-2023 (\$ Millions)

Figure 48. Brazil Metal Foil SMD Resistors Revenue Growth 2018-2023 (\$ Millions)

Figure 49. APAC Metal Foil SMD Resistors Sales Market Share by Region in 2022

Figure 50. APAC Metal Foil SMD Resistors Revenue Market Share by Regions in 2022

Figure 51. APAC Metal Foil SMD Resistors Sales Market Share by Type (2018-2023)

Figure 52. APAC Metal Foil SMD Resistors Sales Market Share by Application (2018-2023)

Figure 53. China Metal Foil SMD Resistors Revenue Growth 2018-2023 (\$ Millions)

Figure 54. Japan Metal Foil SMD Resistors Revenue Growth 2018-2023 (\$ Millions)

Figure 55. South Korea Metal Foil SMD Resistors Revenue Growth 2018-2023 (\$ Millions)

Figure 56. Southeast Asia Metal Foil SMD Resistors Revenue Growth 2018-2023 (\$ Millions)

Figure 57. India Metal Foil SMD Resistors Revenue Growth 2018-2023 (\$ Millions)

Figure 58. Australia Metal Foil SMD Resistors Revenue Growth 2018-2023 (\$ Millions)



Figure 59. China Taiwan Metal Foil SMD Resistors Revenue Growth 2018-2023 (\$ Millions)

Figure 60. Europe Metal Foil SMD Resistors Sales Market Share by Country in 2022

Figure 61. Europe Metal Foil SMD Resistors Revenue Market Share by Country in 2022

Figure 62. Europe Metal Foil SMD Resistors Sales Market Share by Type (2018-2023)

Figure 63. Europe Metal Foil SMD Resistors Sales Market Share by Application (2018-2023)

Figure 64. Germany Metal Foil SMD Resistors Revenue Growth 2018-2023 (\$ Millions)

Figure 65. France Metal Foil SMD Resistors Revenue Growth 2018-2023 (\$ Millions)

Figure 66. UK Metal Foil SMD Resistors Revenue Growth 2018-2023 (\$ Millions)

Figure 67. Italy Metal Foil SMD Resistors Revenue Growth 2018-2023 (\$ Millions)

Figure 68. Russia Metal Foil SMD Resistors Revenue Growth 2018-2023 (\$ Millions)

Figure 69. Middle East & Africa Metal Foil SMD Resistors Sales Market Share by Country in 2022

Figure 70. Middle East & Africa Metal Foil SMD Resistors Revenue Market Share by Country in 2022

Figure 71. Middle East & Africa Metal Foil SMD Resistors Sales Market Share by Type (2018-2023)

Figure 72. Middle East & Africa Metal Foil SMD Resistors Sales Market Share by Application (2018-2023)

Figure 73. Egypt Metal Foil SMD Resistors Revenue Growth 2018-2023 (\$ Millions)

Figure 74. South Africa Metal Foil SMD Resistors Revenue Growth 2018-2023 (\$ Millions)

Figure 75. Israel Metal Foil SMD Resistors Revenue Growth 2018-2023 (\$ Millions)

Figure 76. Turkey Metal Foil SMD Resistors Revenue Growth 2018-2023 (\$ Millions)

Figure 77. GCC Country Metal Foil SMD Resistors Revenue Growth 2018-2023 (\$ Millions)

Figure 78. Manufacturing Cost Structure Analysis of Metal Foil SMD Resistors in 2022

Figure 79. Manufacturing Process Analysis of Metal Foil SMD Resistors

Figure 80. Industry Chain Structure of Metal Foil SMD Resistors

Figure 81. Channels of Distribution

Figure 82. Global Metal Foil SMD Resistors Sales Market Forecast by Region (2024-2029)

Figure 83. Global Metal Foil SMD Resistors Revenue Market Share Forecast by Region (2024-2029)

Figure 84. Global Metal Foil SMD Resistors Sales Market Share Forecast by Type (2024-2029)

Figure 85. Global Metal Foil SMD Resistors Revenue Market Share Forecast by Type (2024-2029)

Figure 86. Global Metal Foil SMD Resistors Sales Market Share Forecast by Application (2024-2029)

Figure 87. Global Metal Foil SMD Resistors Revenue Market Share Forecast by Application (2024-2029)

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