

Global Carbon Film Resistors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon Film Resistors market size is expected to reach \$ 1826 million by 2032, rising at a market growth of 2.6% CAGR during the forecast period (2026-2032).

A carbon film resistor is a fixed resistive component produced by depositing a carbon film onto the surface of a ceramic substrate and adjusting its resistance value through a helical cutting process. Characterized by its simple structure, low cost, and wide resistance range, it is extensively utilized in consumer electronics, industrial control systems, power supply units, and fundamental electronic circuits, making it one of the most basic and widely used types of general-purpose resistors. The carbon film resistor industry chain encompasses an upstream segment comprising raw materials and equipment—such as ceramic substrates, carbon materials, metal leads, insulating coatings, and trimming machinery. The midstream segment constitutes the manufacturing phase, involving carbon film deposition, resistance trimming, surface coating, and electrical testing. The downstream applications span consumer electronics manufacturers, home appliance producers, telecommunications equipment providers, and the industrial electronics sector; this segment also incorporates quality inspection, packaging and logistics, and reliability testing services to ensure stable electrical performance during mass production. In 2025, the global production volume of carbon film resistors is projected to reach approximately 24,667 million units, with a global average market price of approximately \$0.06 per unit. The gross profit margins of major industry players are expected to range between 20% and 32%. Also in 2025, the global production capacity for carbon film resistors is estimated at approximately 32,889 million units.

As one of the most fundamental passive electronic components, the carbon film resistor sector has seen its market dynamics gradually shift from a growth-oriented phase to a

mature, established market. In terms of product structure, its core competitive advantages lie in low production costs and a wide range of available resistance values; however, with the widespread adoption of metal film and thick film resistors, its market share in high-precision and high-stability applications has been steadily eroding. Regarding the supply landscape, global manufacturing capacity is highly concentrated in Mainland China, Taiwan, Japan, and the United States; specifically, Mainland China dominates the low-to-mid-range market segments, while manufacturers in Japan, Europe, and North America focus on high-reliability and industrial-grade applications. From the perspective of demand structure, consumer electronics remain the largest application sector—albeit with extremely limited growth potential—while industrial control and power supply systems provide a stable foundation of demand; meanwhile, the medical and high-end equipment sectors account for a relatively small share of the market volume but yield higher profit margins. In terms of technological evolution, the industry is currently undergoing a distinct substitution cycle wherein carbon film technology is gradually being supplanted by metal film and thick film technologies; nevertheless, carbon film resistors continue to command a sustained, long-term demand within low-cost circuitry and basic electronic products.

This report studies the global Carbon Film Resistors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbon Film 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 Carbon Film Resistors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Carbon Film Resistors total production and demand, 2021-2032, (K Units)

Global Carbon Film Resistors total production value, 2021-2032, (USD Million)

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

Global Carbon Film Resistors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Carbon Film Resistors domestic production, consumption, key domestic manufacturers and share

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

Global Carbon Film Resistors production by Type, production, value, CAGR,

2021-2032, (USD Million) & (K Units)

Global Carbon Film Resistors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Carbon Film 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 Yageo Corporation, Vishay Intertechnology, KOA Corporation, Panasonic Holdings, TT Electronics, Ohmite Manufacturing, Stackpole Electronics, Kamaya Electric, Fenghua Advanced Technology, Caddock Electronics, 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 Carbon Film Resistors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Carbon Film Resistors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Film Resistors Market, Segmentation by Type:

Normal Resistor

Miniature Resistor

Global Carbon Film Resistors Market, Segmentation by Power Rating:

Low Power: 2 W

Global Carbon Film Resistors Market, Segmentation by Structure Type:

Standard Type

Sulfurization-Resistant

Global Carbon Film Resistors Market, Segmentation by Application:

Consumer Electronics

Power Supply Circuits

Signal Processing Circuits

Telecommunication Equipment

Others

Companies Profiled:

Yageo Corporation

Vishay Intertechnology

KOA Corporation

Panasonic Holdings

TT Electronics

Ohmite Manufacturing

Stackpole Electronics

Kamaya Electric

Fenghua Advanced Technology

Caddock Electronics

MIBA Resistors

UniOhm

Royal Ohm

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

Production Site (States, Country)

4.4.2 United States Based Manufacturers Carbon Film Resistors Production Value (2021-2026)

4.4.3 United States Based Manufacturers Carbon Film Resistors Production (2021-2026)

4.5 China Based Carbon Film Resistors Manufacturers and Market Share

4.5.1 China Based Carbon Film Resistors Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Carbon Film Resistors Production Value (2021-2026)

4.5.3 China Based Manufacturers Carbon Film Resistors Production (2021-2026)

4.6 Rest of World Based Carbon Film Resistors Manufacturers and Market Share, 2021-2026

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

4.6.2 Rest of World Based Manufacturers Carbon Film Resistors Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Carbon Film Resistors Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Carbon Film Resistors Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Normal Resistor

5.2.2 Miniature Resistor

5.3 Market Segment by Type

5.3.1 World Carbon Film Resistors Production by Type (2021-2032)

5.3.2 World Carbon Film Resistors Production Value by Type (2021-2032)

5.3.3 World Carbon Film Resistors Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY POWER RATING

6.1 World Carbon Film Resistors Market Size Overview by Power Rating: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Power Rating

6.2.1 Low Power: 2 W

6.3 Market Segment by Power Rating

- 6.3.1 World Carbon Film Resistors Production by Power Rating (2021-2032)
- 6.3.2 World Carbon Film Resistors Production Value by Power Rating (2021-2032)
- 6.3.3 World Carbon Film Resistors Average Price by Power Rating (2021-2032)

7 MARKET ANALYSIS BY STRUCTURE TYPE

- 7.1 World Carbon Film Resistors Market Size Overview by Structure Type: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Structure Type
 - 7.2.1 Standard Type
 - 7.2.2 Sulfurization-Resistant
- 7.3 Market Segment by Structure Type
 - 7.3.1 World Carbon Film Resistors Production by Structure Type (2021-2032)
 - 7.3.2 World Carbon Film Resistors Production Value by Structure Type (2021-2032)
 - 7.3.3 World Carbon Film Resistors Average Price by Structure Type (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World Carbon Film Resistors Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 Consumer Electronics
 - 8.2.2 Power Supply Circuits
 - 8.2.3 Signal Processing Circuits
 - 8.2.4 Telecommunication Equipment
 - 8.2.5 Others
- 8.3 Market Segment by Application
 - 8.3.1 World Carbon Film Resistors Production by Application (2021-2032)
 - 8.3.2 World Carbon Film Resistors Production Value by Application (2021-2032)
 - 8.3.3 World Carbon Film Resistors Average Price by Application (2021-2032)

9 COMPANY PROFILES

- 9.1 Yageo Corporation
 - 9.1.1 Yageo Corporation Details
 - 9.1.2 Yageo Corporation Major Business
 - 9.1.3 Yageo Corporation Carbon Film Resistors Product and Services
 - 9.1.4 Yageo Corporation Carbon Film Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.1.5 Yageo Corporation Recent Developments/Updates
- 9.1.6 Yageo Corporation Competitive Strengths & Weaknesses
- 9.2 Vishay Intertechnology
 - 9.2.1 Vishay Intertechnology Details
 - 9.2.2 Vishay Intertechnology Major Business
 - 9.2.3 Vishay Intertechnology Carbon Film Resistors Product and Services
 - 9.2.4 Vishay Intertechnology Carbon Film Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Vishay Intertechnology Recent Developments/Updates
 - 9.2.6 Vishay Intertechnology Competitive Strengths & Weaknesses
- 9.3 KOA Corporation
 - 9.3.1 KOA Corporation Details
 - 9.3.2 KOA Corporation Major Business
 - 9.3.3 KOA Corporation Carbon Film Resistors Product and Services
 - 9.3.4 KOA Corporation Carbon Film Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 KOA Corporation Recent Developments/Updates
 - 9.3.6 KOA Corporation Competitive Strengths & Weaknesses
- 9.4 Panasonic Holdings
 - 9.4.1 Panasonic Holdings Details
 - 9.4.2 Panasonic Holdings Major Business
 - 9.4.3 Panasonic Holdings Carbon Film Resistors Product and Services
 - 9.4.4 Panasonic Holdings Carbon Film Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Panasonic Holdings Recent Developments/Updates
 - 9.4.6 Panasonic Holdings Competitive Strengths & Weaknesses
- 9.5 TT Electronics
 - 9.5.1 TT Electronics Details
 - 9.5.2 TT Electronics Major Business
 - 9.5.3 TT Electronics Carbon Film Resistors Product and Services
 - 9.5.4 TT Electronics Carbon Film Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 TT Electronics Recent Developments/Updates
 - 9.5.6 TT Electronics Competitive Strengths & Weaknesses
- 9.6 Ohmite Manufacturing
 - 9.6.1 Ohmite Manufacturing Details
 - 9.6.2 Ohmite Manufacturing Major Business
 - 9.6.3 Ohmite Manufacturing Carbon Film Resistors Product and Services
 - 9.6.4 Ohmite Manufacturing Carbon Film Resistors Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.6.5 Ohmite Manufacturing Recent Developments/Updates

9.6.6 Ohmite Manufacturing Competitive Strengths & Weaknesses

9.7 Stackpole Electronics

9.7.1 Stackpole Electronics Details

9.7.2 Stackpole Electronics Major Business

9.7.3 Stackpole Electronics Carbon Film Resistors Product and Services

9.7.4 Stackpole Electronics Carbon Film Resistors Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.7.5 Stackpole Electronics Recent Developments/Updates

9.7.6 Stackpole Electronics Competitive Strengths & Weaknesses

9.8 Kamaya Electric

9.8.1 Kamaya Electric Details

9.8.2 Kamaya Electric Major Business

9.8.3 Kamaya Electric Carbon Film Resistors Product and Services

9.8.4 Kamaya Electric Carbon Film Resistors Production, Price, Value, Gross Margin

and Market Share (2021-2026)

9.8.5 Kamaya Electric Recent Developments/Updates

9.8.6 Kamaya Electric Competitive Strengths & Weaknesses

9.9 Fenghua Advanced Technology

9.9.1 Fenghua Advanced Technology Details

9.9.2 Fenghua Advanced Technology Major Business

9.9.3 Fenghua Advanced Technology Carbon Film Resistors Product and Services

9.9.4 Fenghua Advanced Technology Carbon Film Resistors Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.9.5 Fenghua Advanced Technology Recent Developments/Updates

9.9.6 Fenghua Advanced Technology Competitive Strengths & Weaknesses

9.10 Caddock Electronics

9.10.1 Caddock Electronics Details

9.10.2 Caddock Electronics Major Business

9.10.3 Caddock Electronics Carbon Film Resistors Product and Services

9.10.4 Caddock Electronics Carbon Film Resistors Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.10.5 Caddock Electronics Recent Developments/Updates

9.10.6 Caddock Electronics Competitive Strengths & Weaknesses

9.11 MIBA Resistors

9.11.1 MIBA Resistors Details

9.11.2 MIBA Resistors Major Business

9.11.3 MIBA Resistors Carbon Film Resistors Product and Services

9.11.4 MIBA Resistors Carbon Film Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 MIBA Resistors Recent Developments/Updates

9.11.6 MIBA Resistors Competitive Strengths & Weaknesses

9.12 UniOhm

9.12.1 UniOhm Details

9.12.2 UniOhm Major Business

9.12.3 UniOhm Carbon Film Resistors Product and Services

9.12.4 UniOhm Carbon Film Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 UniOhm Recent Developments/Updates

9.12.6 UniOhm Competitive Strengths & Weaknesses

9.13 Royal Ohm

9.13.1 Royal Ohm Details

9.13.2 Royal Ohm Major Business

9.13.3 Royal Ohm Carbon Film Resistors Product and Services

9.13.4 Royal Ohm Carbon Film Resistors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Royal Ohm Recent Developments/Updates

9.13.6 Royal Ohm Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Carbon Film Resistors Industry Chain

10.2 Carbon Film Resistors Upstream Analysis

10.2.1 Carbon Film Resistors Core Raw Materials

10.2.2 Main Manufacturers of Carbon Film Resistors Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Carbon Film Resistors Production Mode

10.6 Carbon Film Resistors Procurement Model

10.7 Carbon Film Resistors Industry Sales Model and Sales Channels

10.7.1 Carbon Film Resistors Sales Model

10.7.2 Carbon Film Resistors 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 Carbon Film Resistors Production Value by Region (2021, 2025 and 2032) & (USD Million)

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

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

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

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

Table 6. World Carbon Film Resistors Production by Region (2021-2026) & (K Units)

Table 7. World Carbon Film Resistors Production by Region (2027-2032) & (K Units)

Table 8. World Carbon Film Resistors Production Market Share by Region (2021-2026)

Table 9. World Carbon Film Resistors Production Market Share by Region (2027-2032)

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

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

Table 12. Carbon Film Resistors Major Market Trends

Table 13. World Carbon Film Resistors Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Carbon Film Resistors Consumption by Region (2021-2026) & (K Units)

Table 15. World Carbon Film Resistors Consumption Forecast by Region (2027-2032) & (K Units)

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

Table 17. Production Value Market Share of Key Carbon Film Resistors Producers in 2025

Table 18. World Carbon Film Resistors Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Carbon Film Resistors Producers in 2025

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

Table 21. Global Carbon Film Resistors Company Evaluation Quadrant

- Table 22. World Carbon Film Resistors Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Carbon Film Resistors Production Site of Key Manufacturer
- Table 24. Carbon Film Resistors Market: Company Product Type Footprint
- Table 25. Carbon Film Resistors Market: Company Product Application Footprint
- Table 26. Carbon Film Resistors Competitive Factors
- Table 27. Carbon Film Resistors New Entrant and Capacity Expansion Plans
- Table 28. Carbon Film Resistors Mergers & Acquisitions Activity
- Table 29. United States VS China Carbon Film Resistors Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 30. United States VS China Carbon Film Resistors Production Comparison, (2021 & 2025 & 2032) & (K Units)
- Table 31. United States VS China Carbon Film Resistors Consumption Comparison, (2021 & 2025 & 2032) & (K Units)
- Table 32. United States Based Carbon Film Resistors Manufacturers, Headquarters and Production Site (States, Country)
- Table 33. United States Based Manufacturers Carbon Film Resistors Production Value, (2021-2026) & (USD Million)
- Table 34. United States Based Manufacturers Carbon Film Resistors Production Value Market Share (2021-2026)
- Table 35. United States Based Manufacturers Carbon Film Resistors Production (2021-2026) & (K Units)
- Table 36. United States Based Manufacturers Carbon Film Resistors Production Market Share (2021-2026)
- Table 37. China Based Carbon Film Resistors Manufacturers, Headquarters and Production Site (Province, Country)
- Table 38. China Based Manufacturers Carbon Film Resistors Production Value, (2021-2026) & (USD Million)
- Table 39. China Based Manufacturers Carbon Film Resistors Production Value Market Share (2021-2026)
- Table 40. China Based Manufacturers Carbon Film Resistors Production, (2021-2026) & (K Units)
- Table 41. China Based Manufacturers Carbon Film Resistors Production Market Share (2021-2026)
- Table 42. Rest of World Based Carbon Film Resistors Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers Carbon Film Resistors Production Value, (2021-2026) & (USD Million)
- Table 44. Rest of World Based Manufacturers Carbon Film Resistors Production Value

Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Carbon Film Resistors Production, (2021-2026) & (K Units)

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

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

Table 48. World Carbon Film Resistors Production by Type (2021-2026) & (K Units)

Table 49. World Carbon Film Resistors Production by Type (2027-2032) & (K Units)

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

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

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

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

Table 54. World Carbon Film Resistors Production Value by Power Rating, (USD Million), 2021 & 2025 & 2032

Table 55. World Carbon Film Resistors Production by Power Rating (2021-2026) & (K Units)

Table 56. World Carbon Film Resistors Production by Power Rating (2027-2032) & (K Units)

Table 57. World Carbon Film Resistors Production Value by Power Rating (2021-2026) & (USD Million)

Table 58. World Carbon Film Resistors Production Value by Power Rating (2027-2032) & (USD Million)

Table 59. World Carbon Film Resistors Average Price by Power Rating (2021-2026) & (US\$/Unit)

Table 60. World Carbon Film Resistors Average Price by Power Rating (2027-2032) & (US\$/Unit)

Table 61. World Carbon Film Resistors Production Value by Structure Type, (USD Million), 2021 & 2025 & 2032

Table 62. World Carbon Film Resistors Production by Structure Type (2021-2026) & (K Units)

Table 63. World Carbon Film Resistors Production by Structure Type (2027-2032) & (K Units)

Table 64. World Carbon Film Resistors Production Value by Structure Type (2021-2026) & (USD Million)

- Table 65. World Carbon Film Resistors Production Value by Structure Type (2027-2032) & (USD Million)
- Table 66. World Carbon Film Resistors Average Price by Structure Type (2021-2026) & (US\$/Unit)
- Table 67. World Carbon Film Resistors Average Price by Structure Type (2027-2032) & (US\$/Unit)
- Table 68. World Carbon Film Resistors Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 69. World Carbon Film Resistors Production by Application (2021-2026) & (K Units)
- Table 70. World Carbon Film Resistors Production by Application (2027-2032) & (K Units)
- Table 71. World Carbon Film Resistors Production Value by Application (2021-2026) & (USD Million)
- Table 72. World Carbon Film Resistors Production Value by Application (2027-2032) & (USD Million)
- Table 73. World Carbon Film Resistors Average Price by Application (2021-2026) & (US\$/Unit)
- Table 74. World Carbon Film Resistors Average Price by Application (2027-2032) & (US\$/Unit)
- Table 75. Yageo Corporation Basic Information, Manufacturing Base and Competitors
- Table 76. Yageo Corporation Major Business
- Table 77. Yageo Corporation Carbon Film Resistors Product and Services
- Table 78. Yageo Corporation Carbon Film Resistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 79. Yageo Corporation Recent Developments/Updates
- Table 80. Yageo Corporation Competitive Strengths & Weaknesses
- Table 81. Vishay Intertechnology Basic Information, Manufacturing Base and Competitors
- Table 82. Vishay Intertechnology Major Business
- Table 83. Vishay Intertechnology Carbon Film Resistors Product and Services
- Table 84. Vishay Intertechnology Carbon Film Resistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Vishay Intertechnology Recent Developments/Updates
- Table 86. Vishay Intertechnology Competitive Strengths & Weaknesses
- Table 87. KOA Corporation Basic Information, Manufacturing Base and Competitors
- Table 88. KOA Corporation Major Business

- Table 89. KOA Corporation Carbon Film Resistors Product and Services
- Table 90. KOA Corporation Carbon Film Resistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. KOA Corporation Recent Developments/Updates
- Table 92. KOA Corporation Competitive Strengths & Weaknesses
- Table 93. Panasonic Holdings Basic Information, Manufacturing Base and Competitors
- Table 94. Panasonic Holdings Major Business
- Table 95. Panasonic Holdings Carbon Film Resistors Product and Services
- Table 96. Panasonic Holdings Carbon Film Resistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Panasonic Holdings Recent Developments/Updates
- Table 98. Panasonic Holdings Competitive Strengths & Weaknesses
- Table 99. TT Electronics Basic Information, Manufacturing Base and Competitors
- Table 100. TT Electronics Major Business
- Table 101. TT Electronics Carbon Film Resistors Product and Services
- Table 102. TT Electronics Carbon Film Resistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. TT Electronics Recent Developments/Updates
- Table 104. TT Electronics Competitive Strengths & Weaknesses
- Table 105. Ohmite Manufacturing Basic Information, Manufacturing Base and Competitors
- Table 106. Ohmite Manufacturing Major Business
- Table 107. Ohmite Manufacturing Carbon Film Resistors Product and Services
- Table 108. Ohmite Manufacturing Carbon Film Resistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Ohmite Manufacturing Recent Developments/Updates
- Table 110. Ohmite Manufacturing Competitive Strengths & Weaknesses
- Table 111. Stackpole Electronics Basic Information, Manufacturing Base and Competitors
- Table 112. Stackpole Electronics Major Business
- Table 113. Stackpole Electronics Carbon Film Resistors Product and Services
- Table 114. Stackpole Electronics Carbon Film Resistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Stackpole Electronics Recent Developments/Updates
- Table 116. Stackpole Electronics Competitive Strengths & Weaknesses

Table 117. Kamaya Electric Basic Information, Manufacturing Base and Competitors

Table 118. Kamaya Electric Major Business

Table 119. Kamaya Electric Carbon Film Resistors Product and Services

Table 120. Kamaya Electric Carbon Film Resistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Kamaya Electric Recent Developments/Updates

Table 122. Kamaya Electric Competitive Strengths & Weaknesses

Table 123. Fenghua Advanced Technology Basic Information, Manufacturing Base and Competitors

Table 124. Fenghua Advanced Technology Major Business

Table 125. Fenghua Advanced Technology Carbon Film Resistors Product and Services

Table 126. Fenghua Advanced Technology Carbon Film Resistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Fenghua Advanced Technology Recent Developments/Updates

Table 128. Fenghua Advanced Technology Competitive Strengths & Weaknesses

Table 129. Caddock Electronics Basic Information, Manufacturing Base and Competitors

Table 130. Caddock Electronics Major Business

Table 131. Caddock Electronics Carbon Film Resistors Product and Services

Table 132. Caddock Electronics Carbon Film Resistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Caddock Electronics Recent Developments/Updates

Table 134. Caddock Electronics Competitive Strengths & Weaknesses

Table 135. MIBA Resistors Basic Information, Manufacturing Base and Competitors

Table 136. MIBA Resistors Major Business

Table 137. MIBA Resistors Carbon Film Resistors Product and Services

Table 138. MIBA Resistors Carbon Film Resistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. MIBA Resistors Recent Developments/Updates

Table 140. MIBA Resistors Competitive Strengths & Weaknesses

Table 141. UniOhm Basic Information, Manufacturing Base and Competitors

Table 142. UniOhm Major Business

Table 143. UniOhm Carbon Film Resistors Product and Services

Table 144. UniOhm Carbon Film Resistors Production (K Units), Price (US\$/Unit),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. UniOhm Recent Developments/Updates

Table 146. UniOhm Competitive Strengths & Weaknesses

Table 147. Royal Ohm Basic Information, Manufacturing Base and Competitors

Table 148. Royal Ohm Major Business

Table 149. Royal Ohm Carbon Film Resistors Product and Services

Table 150. Royal Ohm Carbon Film Resistors Production (K Units), Price (US\$/Unit),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Royal Ohm Recent Developments/Updates

Table 152. Royal Ohm Competitive Strengths & Weaknesses

Table 153. Global Key Players of Carbon Film Resistors Upstream (Raw Materials)

Table 154. Global Carbon Film Resistors Typical Customers

Table 155. Carbon Film Resistors Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Carbon Film Resistors Picture

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

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

Figure 4. World Carbon Film Resistors Production (2021-2032) & (K Units)

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

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

Figure 7. World Carbon Film Resistors Production Market Share by Region (2021-2032)

Figure 8. North America Carbon Film Resistors Production (2021-2032) & (K Units)

Figure 9. Europe Carbon Film Resistors Production (2021-2032) & (K Units)

Figure 10. China Carbon Film Resistors Production (2021-2032) & (K Units)

Figure 11. Japan Carbon Film Resistors Production (2021-2032) & (K Units)

Figure 12. Taiwan, China Carbon Film Resistors Production (2021-2032) & (K Units)

Figure 13. Carbon Film Resistors Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Carbon Film Resistors Consumption (2021-2032) & (K Units)

Figure 16. World Carbon Film Resistors Consumption Market Share by Region (2021-2032)

Figure 17. United States Carbon Film Resistors Consumption (2021-2032) & (K Units)

Figure 18. China Carbon Film Resistors Consumption (2021-2032) & (K Units)

Figure 19. Europe Carbon Film Resistors Consumption (2021-2032) & (K Units)

Figure 20. Japan Carbon Film Resistors Consumption (2021-2032) & (K Units)

Figure 21. South Korea Carbon Film Resistors Consumption (2021-2032) & (K Units)

Figure 22. ASEAN Carbon Film Resistors Consumption (2021-2032) & (K Units)

Figure 23. India Carbon Film Resistors Consumption (2021-2032) & (K Units)

Figure 24. Producer Shipments of Carbon Film Resistors by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Carbon Film Resistors Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Carbon Film Resistors Markets in 2025

Figure 27. United States VS China: Carbon Film Resistors Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Carbon Film Resistors Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Carbon Film Resistors Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Carbon Film Resistors Production Market Share 2025

Figure 31. China Based Manufacturers Carbon Film Resistors Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Carbon Film Resistors Production Market Share 2025

Figure 33. World Carbon Film Resistors Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Carbon Film Resistors Production Value Market Share by Type in 2025

Figure 35. Normal Resistor

Figure 36. Miniature Resistor

Figure 37. World Carbon Film Resistors Production Market Share by Type (2021-2032)

Figure 38. World Carbon Film Resistors Production Value Market Share by Type (2021-2032)

Figure 39. World Carbon Film Resistors Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Carbon Film Resistors Production Value by Power Rating, (USD Million), 2021 & 2025 & 2032

Figure 41. World Carbon Film Resistors Production Value Market Share by Power Rating in 2025

Figure 42. Low Power: 2 W

Figure 45. World Carbon Film Resistors Production Market Share by Power Rating (2021-2032)

Figure 46. World Carbon Film Resistors Production Value Market Share by Power Rating (2021-2032)

Figure 47. World Carbon Film Resistors Average Price by Power Rating (2021-2032) & (US\$/Unit)

Figure 48. World Carbon Film Resistors Production Value by Structure Type, (USD Million), 2021 & 2025 & 2032

Figure 49. World Carbon Film Resistors Production Value Market Share by Structure Type in 2025

Figure 50. Standard Type

Figure 51. Sulfurization-Resistant

Figure 52. World Carbon Film Resistors Production Market Share by Structure Type

(2021-2032)

Figure 53. World Carbon Film Resistors Production Value Market Share by Structure Type (2021-2032)

Figure 54. World Carbon Film Resistors Average Price by Structure Type (2021-2032) & (US\$/Unit)

Figure 55. World Carbon Film Resistors Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Carbon Film Resistors Production Value Market Share by Application in 2025

Figure 57. Consumer Electronics

Figure 58. Power Supply Circuits

Figure 59. Signal Processing Circuits

Figure 60. Telecommunication Equipment

Figure 61. Others

Figure 62. World Carbon Film Resistors Production Market Share by Application (2021-2032)

Figure 63. World Carbon Film Resistors Production Value Market Share by Application (2021-2032)

Figure 64. World Carbon Film Resistors Average Price by Application (2021-2032) & (US\$/Unit)

Figure 65. Carbon Film Resistors Industry Chain

Figure 66. Carbon Film Resistors Procurement Model

Figure 67. Carbon Film Resistors Sales Model

Figure 68. Carbon Film Resistors Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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