

Global Automotive High Voltage Resistor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive High Voltage Resistor market size is expected to reach \$ 599 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

Automotive high-voltage resistors are precision resistive components specifically designed for high-voltage automotive electronic systems. They are typically suitable for 400V–1000V high-voltage platforms and are mainly used for voltage division, current limiting, and circuit protection. These products feature high insulation strength, good temperature stability, and vibration resistance, enabling long-term stable operation under complex and harsh automotive conditions. They are widely used in new energy and hybrid vehicles. The upstream of the automotive high-voltage resistor industry chain includes thick-film or metal-film resistor materials, ceramic substrates, copper terminals, and high-temperature resistant packaging materials; the midstream involves precision resistor repair, automated assembly, and reliability testing; and the downstream is mainly used in core electronic control modules such as battery management systems, inverters, on-board chargers, DC-DC converters, and motor control units. In 2025, global automotive high-voltage resistor production was approximately 475 million units, with a global average market price of approximately US\$0.80 per unit. The gross profit margin of major companies in the industry ranged from 35% to 55%. Global automotive high-voltage resistor production capacity in 2025 was approximately 633 million units.

The automotive high voltage resistor market is expanding rapidly with the growth of electric and hybrid vehicles. Higher voltage platforms such as 800V architectures require components with stronger insulation, higher precision, and improved thermal performance. These resistors play a critical role in safety and system stability, leading to higher quality standards and stronger pricing power. Manufacturers are focusing on

miniaturization, higher power density, and automotive-grade reliability certification. Supported by global EV penetration and electrification trends, the market is expected to achieve steady and above-average growth over the next decade.

This report studies the global Automotive High Voltage Resistor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Automotive High Voltage Resistor total production and demand, 2021-2032, (M Pcs)

Global Automotive High Voltage Resistor total production value, 2021-2032, (USD Million)

Global Automotive High Voltage Resistor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (M Pcs), (based on production site)

Global Automotive High Voltage Resistor consumption by region & country, CAGR, 2021-2032 & (M Pcs)

U.S. VS China: Automotive High Voltage Resistor domestic production, consumption, key domestic manufacturers and share

Global Automotive High Voltage Resistor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (M Pcs)

Global Automotive High Voltage Resistor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (M Pcs)

Global Automotive High Voltage Resistor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (M Pcs)

This report profiles key players in the global Automotive High Voltage 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, Viking Tech, KOA Speer, YAGEO, Ralec, ROHM, Panasonic, Kamaya, Susumu, Walsin Technology, 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 Automotive High Voltage Resistor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (M Pcs) and average price (US\$/K Pcs) 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 Automotive High Voltage Resistor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive High Voltage Resistor Market, Segmentation by Type:

Thick Film High Voltage Resistor

Thin Film High Voltage Resistor

Other

Global Automotive High Voltage Resistor Market, Segmentation by Voltage Rating:

400–600 V Resistor

800–1000 V Resistor

1000–1500 V Resistor

Ultra High Voltage (>1500 V)

Global Automotive High Voltage Resistor Market, Segmentation by Packaging:

Chip Type

Leaded Type

Global Automotive High Voltage Resistor Market, Segmentation by Application:

Commercial Vehicles

Passenger Vehicles

Companies Profiled:

Vishay

Viking Tech

KOA Speer

YAGEO

Ralec

ROHM

Panasonic

Kamaya

Susumu

Walsin Technology

Metallux AG

Nicrom Electronic

Bourns

TT Electronics

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

Comparison

4.3.1 United States VS China: Automotive High Voltage Resistor Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Automotive High Voltage Resistor Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Automotive High Voltage Resistor Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Automotive High Voltage Resistor Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Automotive High Voltage Resistor Production Value (2021-2026)

4.4.3 United States Based Manufacturers Automotive High Voltage Resistor Production (2021-2026)

4.5 China Based Automotive High Voltage Resistor Manufacturers and Market Share

4.5.1 China Based Automotive High Voltage Resistor Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Automotive High Voltage Resistor Production Value (2021-2026)

4.5.3 China Based Manufacturers Automotive High Voltage Resistor Production (2021-2026)

4.6 Rest of World Based Automotive High Voltage Resistor Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Automotive High Voltage Resistor Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Automotive High Voltage Resistor Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Automotive High Voltage Resistor Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Automotive High Voltage Resistor Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Thick Film High Voltage Resistor

5.2.2 Thin Film High Voltage Resistor

5.2.3 Other

5.3 Market Segment by Type

5.3.1 World Automotive High Voltage Resistor Production by Type (2021-2032)

- 5.3.2 World Automotive High Voltage Resistor Production Value by Type (2021-2032)
- 5.3.3 World Automotive High Voltage Resistor Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY VOLTAGE RATING

- 6.1 World Automotive High Voltage Resistor Market Size Overview by Voltage Rating: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Voltage Rating
 - 6.2.1 400–600 V Resistor
 - 6.2.2 800–1000 V Resistor
 - 6.2.3 1000–1500 V Resistor
 - 6.2.4 Ultra High Voltage (>1500 V)
- 6.3 Market Segment by Voltage Rating
 - 6.3.1 World Automotive High Voltage Resistor Production by Voltage Rating (2021-2032)
 - 6.3.2 World Automotive High Voltage Resistor Production Value by Voltage Rating (2021-2032)
 - 6.3.3 World Automotive High Voltage Resistor Average Price by Voltage Rating (2021-2032)

7 MARKET ANALYSIS BY PACKAGING

- 7.1 World Automotive High Voltage Resistor Market Size Overview by Packaging: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Packaging
 - 7.2.1 Chip Type
 - 7.2.2 Leaded Type
- 7.3 Market Segment by Packaging
 - 7.3.1 World Automotive High Voltage Resistor Production by Packaging (2021-2032)
 - 7.3.2 World Automotive High Voltage Resistor Production Value by Packaging (2021-2032)
 - 7.3.3 World Automotive High Voltage Resistor Average Price by Packaging (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World Automotive High Voltage Resistor Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application

8.2.1 Commercial Vehicles

8.2.2 Passenger Vehicles

8.3 Market Segment by Application

8.3.1 World Automotive High Voltage Resistor Production by Application (2021-2032)

8.3.2 World Automotive High Voltage Resistor Production Value by Application (2021-2032)

8.3.3 World Automotive High Voltage Resistor Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Vishay

9.1.1 Vishay Details

9.1.2 Vishay Major Business

9.1.3 Vishay Automotive High Voltage Resistor Product and Services

9.1.4 Vishay Automotive High Voltage Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Vishay Recent Developments/Updates

9.1.6 Vishay Competitive Strengths & Weaknesses

9.2 Viking Tech

9.2.1 Viking Tech Details

9.2.2 Viking Tech Major Business

9.2.3 Viking Tech Automotive High Voltage Resistor Product and Services

9.2.4 Viking Tech Automotive High Voltage Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Viking Tech Recent Developments/Updates

9.2.6 Viking Tech Competitive Strengths & Weaknesses

9.3 KOA Speer

9.3.1 KOA Speer Details

9.3.2 KOA Speer Major Business

9.3.3 KOA Speer Automotive High Voltage Resistor Product and Services

9.3.4 KOA Speer Automotive High Voltage Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 KOA Speer Recent Developments/Updates

9.3.6 KOA Speer Competitive Strengths & Weaknesses

9.4 YAGEO

9.4.1 YAGEO Details

9.4.2 YAGEO Major Business

9.4.3 YAGEO Automotive High Voltage Resistor Product and Services

9.4.4 YAGEO Automotive High Voltage Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 YAGEO Recent Developments/Updates

9.4.6 YAGEO Competitive Strengths & Weaknesses

9.5 Ralec

9.5.1 Ralec Details

9.5.2 Ralec Major Business

9.5.3 Ralec Automotive High Voltage Resistor Product and Services

9.5.4 Ralec Automotive High Voltage Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Ralec Recent Developments/Updates

9.5.6 Ralec Competitive Strengths & Weaknesses

9.6 ROHM

9.6.1 ROHM Details

9.6.2 ROHM Major Business

9.6.3 ROHM Automotive High Voltage Resistor Product and Services

9.6.4 ROHM Automotive High Voltage Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 ROHM Recent Developments/Updates

9.6.6 ROHM Competitive Strengths & Weaknesses

9.7 Panasonic

9.7.1 Panasonic Details

9.7.2 Panasonic Major Business

9.7.3 Panasonic Automotive High Voltage Resistor Product and Services

9.7.4 Panasonic Automotive High Voltage Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Panasonic Recent Developments/Updates

9.7.6 Panasonic Competitive Strengths & Weaknesses

9.8 Kamaya

9.8.1 Kamaya Details

9.8.2 Kamaya Major Business

9.8.3 Kamaya Automotive High Voltage Resistor Product and Services

9.8.4 Kamaya Automotive High Voltage Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Kamaya Recent Developments/Updates

9.8.6 Kamaya Competitive Strengths & Weaknesses

9.9 Susumu

9.9.1 Susumu Details

9.9.2 Susumu Major Business

- 9.9.3 Susumu Automotive High Voltage Resistor Product and Services
- 9.9.4 Susumu Automotive High Voltage Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.9.5 Susumu Recent Developments/Updates
- 9.9.6 Susumu Competitive Strengths & Weaknesses
- 9.10 Walsin Technology
 - 9.10.1 Walsin Technology Details
 - 9.10.2 Walsin Technology Major Business
 - 9.10.3 Walsin Technology Automotive High Voltage Resistor Product and Services
 - 9.10.4 Walsin Technology Automotive High Voltage Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Walsin Technology Recent Developments/Updates
 - 9.10.6 Walsin Technology Competitive Strengths & Weaknesses
- 9.11 Metallux AG
 - 9.11.1 Metallux AG Details
 - 9.11.2 Metallux AG Major Business
 - 9.11.3 Metallux AG Automotive High Voltage Resistor Product and Services
 - 9.11.4 Metallux AG Automotive High Voltage Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Metallux AG Recent Developments/Updates
 - 9.11.6 Metallux AG Competitive Strengths & Weaknesses
- 9.12 Nicrom Electronic
 - 9.12.1 Nicrom Electronic Details
 - 9.12.2 Nicrom Electronic Major Business
 - 9.12.3 Nicrom Electronic Automotive High Voltage Resistor Product and Services
 - 9.12.4 Nicrom Electronic Automotive High Voltage Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Nicrom Electronic Recent Developments/Updates
 - 9.12.6 Nicrom Electronic Competitive Strengths & Weaknesses
- 9.13 Bourns
 - 9.13.1 Bourns Details
 - 9.13.2 Bourns Major Business
 - 9.13.3 Bourns Automotive High Voltage Resistor Product and Services
 - 9.13.4 Bourns Automotive High Voltage Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Bourns Recent Developments/Updates
 - 9.13.6 Bourns Competitive Strengths & Weaknesses
- 9.14 TT Electronics
 - 9.14.1 TT Electronics Details

- 9.14.2 TT Electronics Major Business
- 9.14.3 TT Electronics Automotive High Voltage Resistor Product and Services
- 9.14.4 TT Electronics Automotive High Voltage Resistor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.14.5 TT Electronics Recent Developments/Updates
- 9.14.6 TT Electronics Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Automotive High Voltage Resistor Industry Chain
- 10.2 Automotive High Voltage Resistor Upstream Analysis
 - 10.2.1 Automotive High Voltage Resistor Core Raw Materials
 - 10.2.2 Main Manufacturers of Automotive High Voltage Resistor Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Automotive High Voltage Resistor Production Mode
- 10.6 Automotive High Voltage Resistor Procurement Model
- 10.7 Automotive High Voltage Resistor Industry Sales Model and Sales Channels
 - 10.7.1 Automotive High Voltage Resistor Sales Model
 - 10.7.2 Automotive High Voltage 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 Automotive High Voltage Resistor Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Automotive High Voltage Resistor Production Value by Region (2021-2026) & (USD Million)

Table 3. World Automotive High Voltage Resistor Production Value by Region (2027-2032) & (USD Million)

Table 4. World Automotive High Voltage Resistor Production Value Market Share by Region (2021-2026)

Table 5. World Automotive High Voltage Resistor Production Value Market Share by Region (2027-2032)

Table 6. World Automotive High Voltage Resistor Production by Region (2021-2026) & (M Pcs)

Table 7. World Automotive High Voltage Resistor Production by Region (2027-2032) & (M Pcs)

Table 8. World Automotive High Voltage Resistor Production Market Share by Region (2021-2026)

Table 9. World Automotive High Voltage Resistor Production Market Share by Region (2027-2032)

Table 10. World Automotive High Voltage Resistor Average Price by Region (2021-2026) & (US\$/K Pcs)

Table 11. World Automotive High Voltage Resistor Average Price by Region (2027-2032) & (US\$/K Pcs)

Table 12. Automotive High Voltage Resistor Major Market Trends

Table 13. World Automotive High Voltage Resistor Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (M Pcs)

Table 14. World Automotive High Voltage Resistor Consumption by Region (2021-2026) & (M Pcs)

Table 15. World Automotive High Voltage Resistor Consumption Forecast by Region (2027-2032) & (M Pcs)

Table 16. World Automotive High Voltage Resistor Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Automotive High Voltage Resistor Producers in 2025

Table 18. World Automotive High Voltage Resistor Production by Manufacturer (2021-2026) & (M Pcs)

Table 19. Production Market Share of Key Automotive High Voltage Resistor Producers in 2025

Table 20. World Automotive High Voltage Resistor Average Price by Manufacturer (2021-2026) & (US\$/K Pcs)

Table 21. Global Automotive High Voltage Resistor Company Evaluation Quadrant

Table 22. World Automotive High Voltage Resistor Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Automotive High Voltage Resistor Production Site of Key Manufacturer

Table 24. Automotive High Voltage Resistor Market: Company Product Type Footprint

Table 25. Automotive High Voltage Resistor Market: Company Product Application Footprint

Table 26. Automotive High Voltage Resistor Competitive Factors

Table 27. Automotive High Voltage Resistor New Entrant and Capacity Expansion Plans

Table 28. Automotive High Voltage Resistor Mergers & Acquisitions Activity

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

Table 30. United States VS China Automotive High Voltage Resistor Production Comparison, (2021 & 2025 & 2032) & (M Pcs)

Table 31. United States VS China Automotive High Voltage Resistor Consumption Comparison, (2021 & 2025 & 2032) & (M Pcs)

Table 32. United States Based Automotive High Voltage Resistor Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Automotive High Voltage Resistor Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Automotive High Voltage Resistor Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Automotive High Voltage Resistor Production (2021-2026) & (M Pcs)

Table 36. United States Based Manufacturers Automotive High Voltage Resistor Production Market Share (2021-2026)

Table 37. China Based Automotive High Voltage Resistor Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Automotive High Voltage Resistor Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Automotive High Voltage Resistor Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Automotive High Voltage Resistor Production,

(2021-2026) & (M Pcs)

Table 41. China Based Manufacturers Automotive High Voltage Resistor Production Market Share (2021-2026)

Table 42. Rest of World Based Automotive High Voltage Resistor Manufacturers, Headquarters and Production Site (State, Country)

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

Table 44. Rest of World Based Manufacturers Automotive High Voltage Resistor Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Automotive High Voltage Resistor Production, (2021-2026) & (M Pcs)

Table 46. Rest of World Based Manufacturers Automotive High Voltage Resistor Production Market Share (2021-2026)

Table 47. World Automotive High Voltage Resistor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Automotive High Voltage Resistor Production by Type (2021-2026) & (M Pcs)

Table 49. World Automotive High Voltage Resistor Production by Type (2027-2032) & (M Pcs)

Table 50. World Automotive High Voltage Resistor Production Value by Type (2021-2026) & (USD Million)

Table 51. World Automotive High Voltage Resistor Production Value by Type (2027-2032) & (USD Million)

Table 52. World Automotive High Voltage Resistor Average Price by Type (2021-2026) & (US\$/K Pcs)

Table 53. World Automotive High Voltage Resistor Average Price by Type (2027-2032) & (US\$/K Pcs)

Table 54. World Automotive High Voltage Resistor Production Value by Voltage Rating, (USD Million), 2021 & 2025 & 2032

Table 55. World Automotive High Voltage Resistor Production by Voltage Rating (2021-2026) & (M Pcs)

Table 56. World Automotive High Voltage Resistor Production by Voltage Rating (2027-2032) & (M Pcs)

Table 57. World Automotive High Voltage Resistor Production Value by Voltage Rating (2021-2026) & (USD Million)

Table 58. World Automotive High Voltage Resistor Production Value by Voltage Rating (2027-2032) & (USD Million)

Table 59. World Automotive High Voltage Resistor Average Price by Voltage Rating (2021-2026) & (US\$/K Pcs)

Table 60. World Automotive High Voltage Resistor Average Price by Voltage Rating (2027-2032) & (US\$/K Pcs)

Table 61. World Automotive High Voltage Resistor Production Value by Packaging, (USD Million), 2021 & 2025 & 2032

Table 62. World Automotive High Voltage Resistor Production by Packaging (2021-2026) & (M Pcs)

Table 63. World Automotive High Voltage Resistor Production by Packaging (2027-2032) & (M Pcs)

Table 64. World Automotive High Voltage Resistor Production Value by Packaging (2021-2026) & (USD Million)

Table 65. World Automotive High Voltage Resistor Production Value by Packaging (2027-2032) & (USD Million)

Table 66. World Automotive High Voltage Resistor Average Price by Packaging (2021-2026) & (US\$/K Pcs)

Table 67. World Automotive High Voltage Resistor Average Price by Packaging (2027-2032) & (US\$/K Pcs)

Table 68. World Automotive High Voltage Resistor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Automotive High Voltage Resistor Production by Application (2021-2026) & (M Pcs)

Table 70. World Automotive High Voltage Resistor Production by Application (2027-2032) & (M Pcs)

Table 71. World Automotive High Voltage Resistor Production Value by Application (2021-2026) & (USD Million)

Table 72. World Automotive High Voltage Resistor Production Value by Application (2027-2032) & (USD Million)

Table 73. World Automotive High Voltage Resistor Average Price by Application (2021-2026) & (US\$/K Pcs)

Table 74. World Automotive High Voltage Resistor Average Price by Application (2027-2032) & (US\$/K Pcs)

Table 75. Vishay Basic Information, Manufacturing Base and Competitors

Table 76. Vishay Major Business

Table 77. Vishay Automotive High Voltage Resistor Product and Services

Table 78. Vishay Automotive High Voltage Resistor Production (M Pcs), Price (US\$/K Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Vishay Recent Developments/Updates

Table 80. Vishay Competitive Strengths & Weaknesses

Table 81. Viking Tech Basic Information, Manufacturing Base and Competitors

Table 82. Viking Tech Major Business

Table 83. Viking Tech Automotive High Voltage Resistor Product and Services

Table 84. Viking Tech Automotive High Voltage Resistor Production (M Pcs), Price (US\$/K Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Viking Tech Recent Developments/Updates

Table 86. Viking Tech Competitive Strengths & Weaknesses

Table 87. KOA Speer Basic Information, Manufacturing Base and Competitors

Table 88. KOA Speer Major Business

Table 89. KOA Speer Automotive High Voltage Resistor Product and Services

Table 90. KOA Speer Automotive High Voltage Resistor Production (M Pcs), Price (US\$/K Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. KOA Speer Recent Developments/Updates

Table 92. KOA Speer Competitive Strengths & Weaknesses

Table 93. YAGEO Basic Information, Manufacturing Base and Competitors

Table 94. YAGEO Major Business

Table 95. YAGEO Automotive High Voltage Resistor Product and Services

Table 96. YAGEO Automotive High Voltage Resistor Production (M Pcs), Price (US\$/K Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. YAGEO Recent Developments/Updates

Table 98. YAGEO Competitive Strengths & Weaknesses

Table 99. Ralec Basic Information, Manufacturing Base and Competitors

Table 100. Ralec Major Business

Table 101. Ralec Automotive High Voltage Resistor Product and Services

Table 102. Ralec Automotive High Voltage Resistor Production (M Pcs), Price (US\$/K Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Ralec Recent Developments/Updates

Table 104. Ralec Competitive Strengths & Weaknesses

Table 105. ROHM Basic Information, Manufacturing Base and Competitors

Table 106. ROHM Major Business

Table 107. ROHM Automotive High Voltage Resistor Product and Services

Table 108. ROHM Automotive High Voltage Resistor Production (M Pcs), Price (US\$/K Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. ROHM Recent Developments/Updates

Table 110. ROHM Competitive Strengths & Weaknesses

Table 111. Panasonic Basic Information, Manufacturing Base and Competitors

Table 112. Panasonic Major Business

Table 113. Panasonic Automotive High Voltage Resistor Product and Services

Table 114. Panasonic Automotive High Voltage Resistor Production (M Pcs), Price

(US\$/K Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Panasonic Recent Developments/Updates

Table 116. Panasonic Competitive Strengths & Weaknesses

Table 117. Kamaya Basic Information, Manufacturing Base and Competitors

Table 118. Kamaya Major Business

Table 119. Kamaya Automotive High Voltage Resistor Product and Services

Table 120. Kamaya Automotive High Voltage Resistor Production (M Pcs), Price (US\$/K Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Kamaya Recent Developments/Updates

Table 122. Kamaya Competitive Strengths & Weaknesses

Table 123. Susumu Basic Information, Manufacturing Base and Competitors

Table 124. Susumu Major Business

Table 125. Susumu Automotive High Voltage Resistor Product and Services

Table 126. Susumu Automotive High Voltage Resistor Production (M Pcs), Price (US\$/K Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Susumu Recent Developments/Updates

Table 128. Susumu Competitive Strengths & Weaknesses

Table 129. Walsin Technology Basic Information, Manufacturing Base and Competitors

Table 130. Walsin Technology Major Business

Table 131. Walsin Technology Automotive High Voltage Resistor Product and Services

Table 132. Walsin Technology Automotive High Voltage Resistor Production (M Pcs), Price (US\$/K Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Walsin Technology Recent Developments/Updates

Table 134. Walsin Technology Competitive Strengths & Weaknesses

Table 135. Metallux AG Basic Information, Manufacturing Base and Competitors

Table 136. Metallux AG Major Business

Table 137. Metallux AG Automotive High Voltage Resistor Product and Services

Table 138. Metallux AG Automotive High Voltage Resistor Production (M Pcs), Price (US\$/K Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Metallux AG Recent Developments/Updates

Table 140. Metallux AG Competitive Strengths & Weaknesses

Table 141. Nicrom Electronic Basic Information, Manufacturing Base and Competitors

Table 142. Nicrom Electronic Major Business

Table 143. Nicrom Electronic Automotive High Voltage Resistor Product and Services

Table 144. Nicrom Electronic Automotive High Voltage Resistor Production (M Pcs), Price (US\$/K Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Nicrom Electronic Recent Developments/Updates

Table 146. Nicrom Electronic Competitive Strengths & Weaknesses

Table 147. Bourns Basic Information, Manufacturing Base and Competitors

Table 148. Bourns Major Business

Table 149. Bourns Automotive High Voltage Resistor Product and Services

Table 150. Bourns Automotive High Voltage Resistor Production (M Pcs), Price (US\$/K Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Bourns Recent Developments/Updates

Table 152. Bourns Competitive Strengths & Weaknesses

Table 153. TT Electronics Basic Information, Manufacturing Base and Competitors

Table 154. TT Electronics Major Business

Table 155. TT Electronics Automotive High Voltage Resistor Product and Services

Table 156. TT Electronics Automotive High Voltage Resistor Production (M Pcs), Price (US\$/K Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. TT Electronics Recent Developments/Updates

Table 158. TT Electronics Competitive Strengths & Weaknesses

Table 159. Global Key Players of Automotive High Voltage Resistor Upstream (Raw Materials)

Table 160. Global Automotive High Voltage Resistor Typical Customers

Table 161. Automotive High Voltage Resistor Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Automotive High Voltage Resistor Picture

Figure 2. World Automotive High Voltage Resistor Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Automotive High Voltage Resistor Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Automotive High Voltage Resistor Production (2021-2032) & (M Pcs)

Figure 5. World Automotive High Voltage Resistor Average Price (2021-2032) & (US\$/K Pcs)

Figure 6. World Automotive High Voltage Resistor Production Value Market Share by Region (2021-2032)

Figure 7. World Automotive High Voltage Resistor Production Market Share by Region (2021-2032)

Figure 8. North America Automotive High Voltage Resistor Production (2021-2032) & (M Pcs)

Figure 9. Europe Automotive High Voltage Resistor Production (2021-2032) & (M Pcs)

Figure 10. China Automotive High Voltage Resistor Production (2021-2032) & (M Pcs)

Figure 11. Japan Automotive High Voltage Resistor Production (2021-2032) & (M Pcs)

Figure 12. South Korea Automotive High Voltage Resistor Production (2021-2032) & (M Pcs)

Figure 13. Automotive High Voltage Resistor Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Automotive High Voltage Resistor Consumption (2021-2032) & (M Pcs)

Figure 16. World Automotive High Voltage Resistor Consumption Market Share by Region (2021-2032)

Figure 17. United States Automotive High Voltage Resistor Consumption (2021-2032) & (M Pcs)

Figure 18. China Automotive High Voltage Resistor Consumption (2021-2032) & (M Pcs)

Figure 19. Europe Automotive High Voltage Resistor Consumption (2021-2032) & (M Pcs)

Figure 20. Japan Automotive High Voltage Resistor Consumption (2021-2032) & (M Pcs)

Figure 21. South Korea Automotive High Voltage Resistor Consumption (2021-2032) & (M Pcs)

Figure 22. ASEAN Automotive High Voltage Resistor Consumption (2021-2032) & (M Pcs)

Figure 23. India Automotive High Voltage Resistor Consumption (2021-2032) & (M Pcs)

Figure 24. Producer Shipments of Automotive High Voltage Resistor by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Automotive High Voltage Resistor Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Automotive High Voltage Resistor Markets in 2025

Figure 27. United States VS China: Automotive High Voltage Resistor Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Automotive High Voltage Resistor Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Automotive High Voltage Resistor Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Automotive High Voltage Resistor Production Market Share 2025

Figure 31. China Based Manufacturers Automotive High Voltage Resistor Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Automotive High Voltage Resistor Production Market Share 2025

Figure 33. World Automotive High Voltage Resistor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Automotive High Voltage Resistor Production Value Market Share by Type in 2025

Figure 35. Thick Film High Voltage Resistor

Figure 36. Thin Film High Voltage Resistor

Figure 37. Other

Figure 38. World Automotive High Voltage Resistor Production Market Share by Type (2021-2032)

Figure 39. World Automotive High Voltage Resistor Production Value Market Share by Type (2021-2032)

Figure 40. World Automotive High Voltage Resistor Average Price by Type (2021-2032) & (US\$/K Pcs)

Figure 41. World Automotive High Voltage Resistor Production Value by Voltage Rating, (USD Million), 2021 & 2025 & 2032

Figure 42. World Automotive High Voltage Resistor Production Value Market Share by Voltage Rating in 2025

Figure 43. 400–600 V Resistor

Figure 44. 800–1000 V Resistor

Figure 45. 1000–1500 V Resistor

Figure 46. Ultra High Voltage (>1500 V)

Figure 47. World Automotive High Voltage Resistor Production Market Share by Voltage Rating (2021-2032)

Figure 48. World Automotive High Voltage Resistor Production Value Market Share by Voltage Rating (2021-2032)

Figure 49. World Automotive High Voltage Resistor Average Price by Voltage Rating (2021-2032) & (US\$/K Pcs)

Figure 50. World Automotive High Voltage Resistor Production Value by Packaging, (USD Million), 2021 & 2025 & 2032

Figure 51. World Automotive High Voltage Resistor Production Value Market Share by Packaging in 2025

Figure 52. Chip Type

Figure 53. Leaded Type

Figure 54. World Automotive High Voltage Resistor Production Market Share by Packaging (2021-2032)

Figure 55. World Automotive High Voltage Resistor Production Value Market Share by Packaging (2021-2032)

Figure 56. World Automotive High Voltage Resistor Average Price by Packaging (2021-2032) & (US\$/K Pcs)

Figure 57. World Automotive High Voltage Resistor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Automotive High Voltage Resistor Production Value Market Share by Application in 2025

Figure 59. Commercial Vehicles

Figure 60. Passenger Vehicles

Figure 61. World Automotive High Voltage Resistor Production Market Share by Application (2021-2032)

Figure 62. World Automotive High Voltage Resistor Production Value Market Share by Application (2021-2032)

Figure 63. World Automotive High Voltage Resistor Average Price by Application (2021-2032) & (US\$/K Pcs)

Figure 64. Automotive High Voltage Resistor Industry Chain

Figure 65. Automotive High Voltage Resistor Procurement Model

Figure 66. Automotive High Voltage Resistor Sales Model

Figure 67. Automotive High Voltage Resistor Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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