

# Global High Temperature Film Capacitor for Automotive Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global High Temperature Film Capacitor for Automotive market size is expected to reach \$ 5011 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032).

High temperature film capacitor for automotive are highly reliable capacitors designed for high-temperature working conditions of new energy vehicles and automotive electronics. They are usually made of heat-resistant plastic films such as metalized polypropylene, polyphenylene sulfide, and polyethylene naphthalate as media, and are produced through processes such as metalized evaporation, cutting, winding, gold spraying, welding, sealing, and aging screening. They have the characteristics of high temperature resistance, low loss, high insulation resistance, high ripple current bearing capacity, strong self-healing ability, long service life, and good safety failure characteristics. This product is mainly used in scenarios such as electric drive inverters for new energy vehicles, on-board chargers, DC converters, air conditioning compressor controllers, electric power steering, thermal management systems, and high-voltage distribution units. It undertakes functions such as DC support, filtering, surge absorption, voltage ripple suppression, power quality improvement, and protection of power semiconductor devices. Compared with ordinary thin film capacitors, it emphasizes more on heat resistance at 125 degrees Celsius and above, vehicle reliability, thermal cycle stability, moisture and heat resistance, vibration impact resistance, and long-term high-voltage working life. In 2025, global High Temperature Film Capacitor for Automotive production reached approximately 78.72 M Units, with an average global market price of around US\$ 36.52 per unit.

High heat-resistant film capacitors for automobiles are key passive components in high-

voltage power electronic systems of new energy vehicles. The demand is mainly driven by the increasing penetration rate of electric vehicles, the popularization of 800 volt high-voltage platforms, the increasing application of silicon carbide power devices, the miniaturization and high power density of electric drive systems. Around 2025, main drive inverters, vehicle chargers, and DC converters will have higher requirements for the temperature resistance, voltage resistance, ripple current, low equivalent series resistance, heat dissipation structure, and consistent lifespan of capacitors. High temperature resistant metalized polypropylene film capacitors will still be the mainstream direction, and high temperature resistant media such as polyphenylene sulfide have potential applications in some compact spaces and harsh thermal environments. In terms of industry competition, the price competition for low-end automotive auxiliary circuit products is more obvious, while the certification cycle of DC support capacitors for electric drive main circuits is long and the failure cost is high. The requirements for the quality of metalized film, uniformity of evaporation, winding process, end face gold spraying, busbar connection, sealing materials, thermal design, and vehicle specification verification capabilities are high. Future market opportunities will focus on 800 volt and higher voltage platforms, silicon carbide inverters, highly integrated electric drive systems, thermal management electronic control, fast charging systems, and highly reliable domestic alternatives. Enterprises with thin film material matching, vehicle certification, modular design, thermal simulation capabilities, and experience in joint development with OEMs and Tier1 are more likely to obtain high value-added orders.

This report studies the global High Temperature Film Capacitor for Automotive production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global High Temperature Film Capacitor for Automotive total production and demand, 2021-2032, (Million Units)

Global High Temperature Film Capacitor for Automotive total production value, 2021-2032, (USD Million)

Global High Temperature Film Capacitor for Automotive production by region & country,

production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global High Temperature Film Capacitor for Automotive consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: High Temperature Film Capacitor for Automotive domestic production, consumption, key domestic manufacturers and share

Global High Temperature Film Capacitor for Automotive production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global High Temperature Film Capacitor for Automotive production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global High Temperature Film Capacitor for Automotive production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global High Temperature Film Capacitor for Automotive 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 Murata Manufacturing, Panasonic, TDK Electronics, Yageo, KYOCERA AVX, WIMA, Vishay, Nichicon, Xiamen Faratronic, Nantong Jianghai Capacitor, 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 High Temperature Film Capacitor for Automotive market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million 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 High Temperature Film Capacitor for Automotive Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Temperature Film Capacitor for Automotive Market, Segmentation by Type:

AC Film Capacitors

DC Film Capacitors

Global High Temperature Film Capacitor for Automotive Market, Segmentation by Dielectric Material:

Polypropylene

Polyester

Other

Global High Temperature Film Capacitor for Automotive Market, Segmentation by Product Structure:

Wound Structure

Stacked Structure

## Global High Temperature Film Capacitor for Automotive Market, Segmentation by Application:

BEV

PHEV

## Companies Profiled:

Murata Manufacturing

Panasonic

TDK Electronics

Yageo

KYOCERA AVX

WIMA

Vishay

Nichicon

Xiamen Faratronic

Nantong Jianghai Capacitor

EAGTOP

Anhui Tongfeng Electronics

BM capacitors

## Key Questions Answered:

1. How big is the global High Temperature Film Capacitor for Automotive market?

2. What is the demand of the global High Temperature Film Capacitor for Automotive market?
3. What is the year over year growth of the global High Temperature Film Capacitor for Automotive market?
4. What is the production and production value of the global High Temperature Film Capacitor for Automotive market?
5. Who are the key producers in the global High Temperature Film Capacitor for Automotive market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

- 2.1 World High Temperature Film Capacitor for Automotive Demand (2021-2032)
- 2.2 World High Temperature Film Capacitor for Automotive Consumption by Region
  - 2.2.1 World High Temperature Film Capacitor for Automotive Consumption by Region (2021-2026)
  - 2.2.2 World High Temperature Film Capacitor for Automotive Consumption Forecast by Region (2027-2032)
- 2.3 United States High Temperature Film Capacitor for Automotive Consumption (2021-2032)

- 2.4 China High Temperature Film Capacitor for Automotive Consumption (2021-2032)
- 2.5 Europe High Temperature Film Capacitor for Automotive Consumption (2021-2032)
- 2.6 Japan High Temperature Film Capacitor for Automotive Consumption (2021-2032)
- 2.7 South Korea High Temperature Film Capacitor for Automotive Consumption (2021-2032)
- 2.8 ASEAN High Temperature Film Capacitor for Automotive Consumption (2021-2032)
- 2.9 India High Temperature Film Capacitor for Automotive Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

- 3.1 World High Temperature Film Capacitor for Automotive Production Value by Manufacturer (2021-2026)
- 3.2 World High Temperature Film Capacitor for Automotive Production by Manufacturer (2021-2026)
- 3.3 World High Temperature Film Capacitor for Automotive Average Price by Manufacturer (2021-2026)
- 3.4 High Temperature Film Capacitor for Automotive Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global High Temperature Film Capacitor for Automotive Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for High Temperature Film Capacitor for Automotive in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for High Temperature Film Capacitor for Automotive in 2025
- 3.6 High Temperature Film Capacitor for Automotive Market: Overall Company Footprint Analysis
  - 3.6.1 High Temperature Film Capacitor for Automotive Market: Region Footprint
  - 3.6.2 High Temperature Film Capacitor for Automotive Market: Company Product Type Footprint
  - 3.6.3 High Temperature Film Capacitor for Automotive 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: High Temperature Film Capacitor for Automotive Production Value Comparison

4.1.1 United States VS China: High Temperature Film Capacitor for Automotive Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: High Temperature Film Capacitor for Automotive Production Value Market Share Comparison (2021 & 2025 & 2032)

#### 4.2 United States VS China: High Temperature Film Capacitor for Automotive Production Comparison

4.2.1 United States VS China: High Temperature Film Capacitor for Automotive Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: High Temperature Film Capacitor for Automotive Production Market Share Comparison (2021 & 2025 & 2032)

#### 4.3 United States VS China: High Temperature Film Capacitor for Automotive Consumption Comparison

4.3.1 United States VS China: High Temperature Film Capacitor for Automotive Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: High Temperature Film Capacitor for Automotive Consumption Market Share Comparison (2021 & 2025 & 2032)

#### 4.4 United States Based High Temperature Film Capacitor for Automotive Manufacturers and Market Share, 2021-2026

4.4.1 United States Based High Temperature Film Capacitor for Automotive Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers High Temperature Film Capacitor for Automotive Production Value (2021-2026)

4.4.3 United States Based Manufacturers High Temperature Film Capacitor for Automotive Production (2021-2026)

#### 4.5 China Based High Temperature Film Capacitor for Automotive Manufacturers and Market Share

4.5.1 China Based High Temperature Film Capacitor for Automotive Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers High Temperature Film Capacitor for Automotive Production Value (2021-2026)

4.5.3 China Based Manufacturers High Temperature Film Capacitor for Automotive Production (2021-2026)

#### 4.6 Rest of World Based High Temperature Film Capacitor for Automotive Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based High Temperature Film Capacitor for Automotive Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers High Temperature Film Capacitor for Automotive Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers High Temperature Film Capacitor for Automotive Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World High Temperature Film Capacitor for Automotive Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 AC Film Capacitors

5.2.2 DC Film Capacitors

5.3 Market Segment by Type

5.3.1 World High Temperature Film Capacitor for Automotive Production by Type (2021-2032)

5.3.2 World High Temperature Film Capacitor for Automotive Production Value by Type (2021-2032)

5.3.3 World High Temperature Film Capacitor for Automotive Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY DIELECTRIC MATERIAL**

6.1 World High Temperature Film Capacitor for Automotive Market Size Overview by Dielectric Material: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Dielectric Material

6.2.1 Polypropylene

6.2.2 Polyester

6.2.3 Other

6.3 Market Segment by Dielectric Material

6.3.1 World High Temperature Film Capacitor for Automotive Production by Dielectric Material (2021-2032)

6.3.2 World High Temperature Film Capacitor for Automotive Production Value by Dielectric Material (2021-2032)

6.3.3 World High Temperature Film Capacitor for Automotive Average Price by Dielectric Material (2021-2032)

## **7 MARKET ANALYSIS BY PRODUCT STRUCTURE**

7.1 World High Temperature Film Capacitor for Automotive Market Size Overview by

Product Structure: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Product Structure

7.2.1 Wound Structure

7.2.2 Stacked Structure

7.3 Market Segment by Product Structure

7.3.1 World High Temperature Film Capacitor for Automotive Production by Product Structure (2021-2032)

7.3.2 World High Temperature Film Capacitor for Automotive Production Value by Product Structure (2021-2032)

7.3.3 World High Temperature Film Capacitor for Automotive Average Price by Product Structure (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World High Temperature Film Capacitor for Automotive Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 BEV

8.2.2 PHEV

8.3 Market Segment by Application

8.3.1 World High Temperature Film Capacitor for Automotive Production by Application (2021-2032)

8.3.2 World High Temperature Film Capacitor for Automotive Production Value by Application (2021-2032)

8.3.3 World High Temperature Film Capacitor for Automotive Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 Murata Manufacturing

9.1.1 Murata Manufacturing Details

9.1.2 Murata Manufacturing Major Business

9.1.3 Murata Manufacturing High Temperature Film Capacitor for Automotive Product and Services

9.1.4 Murata Manufacturing High Temperature Film Capacitor for Automotive Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Murata Manufacturing Recent Developments/Updates

9.1.6 Murata Manufacturing Competitive Strengths & Weaknesses

9.2 Panasonic

- 9.2.1 Panasonic Details
- 9.2.2 Panasonic Major Business
- 9.2.3 Panasonic High Temperature Film Capacitor for Automotive Product and Services
- 9.2.4 Panasonic High Temperature Film Capacitor for Automotive Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 Panasonic Recent Developments/Updates
- 9.2.6 Panasonic Competitive Strengths & Weaknesses
- 9.3 TDK Electronics
  - 9.3.1 TDK Electronics Details
  - 9.3.2 TDK Electronics Major Business
  - 9.3.3 TDK Electronics High Temperature Film Capacitor for Automotive Product and Services
  - 9.3.4 TDK Electronics High Temperature Film Capacitor for Automotive Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.3.5 TDK Electronics Recent Developments/Updates
  - 9.3.6 TDK Electronics Competitive Strengths & Weaknesses
- 9.4 Yageo
  - 9.4.1 Yageo Details
  - 9.4.2 Yageo Major Business
  - 9.4.3 Yageo High Temperature Film Capacitor for Automotive Product and Services
  - 9.4.4 Yageo High Temperature Film Capacitor for Automotive 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 KYOCERA AVX
  - 9.5.1 KYOCERA AVX Details
  - 9.5.2 KYOCERA AVX Major Business
  - 9.5.3 KYOCERA AVX High Temperature Film Capacitor for Automotive Product and Services
  - 9.5.4 KYOCERA AVX High Temperature Film Capacitor for Automotive Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.5.5 KYOCERA AVX Recent Developments/Updates
  - 9.5.6 KYOCERA AVX Competitive Strengths & Weaknesses
- 9.6 WIMA
  - 9.6.1 WIMA Details
  - 9.6.2 WIMA Major Business
  - 9.6.3 WIMA High Temperature Film Capacitor for Automotive Product and Services
  - 9.6.4 WIMA High Temperature Film Capacitor for Automotive Production, Price, Value,

## Gross Margin and Market Share (2021-2026)

9.6.5 WIMA Recent Developments/Updates

9.6.6 WIMA Competitive Strengths & Weaknesses

## 9.7 Vishay

9.7.1 Vishay Details

9.7.2 Vishay Major Business

9.7.3 Vishay High Temperature Film Capacitor for Automotive Product and Services

9.7.4 Vishay High Temperature Film Capacitor for Automotive Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Vishay Recent Developments/Updates

9.7.6 Vishay Competitive Strengths & Weaknesses

## 9.8 Nichicon

9.8.1 Nichicon Details

9.8.2 Nichicon Major Business

9.8.3 Nichicon High Temperature Film Capacitor for Automotive Product and Services

9.8.4 Nichicon High Temperature Film Capacitor for Automotive Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Nichicon Recent Developments/Updates

9.8.6 Nichicon Competitive Strengths & Weaknesses

## 9.9 Xiamen Faratronic

9.9.1 Xiamen Faratronic Details

9.9.2 Xiamen Faratronic Major Business

9.9.3 Xiamen Faratronic High Temperature Film Capacitor for Automotive Product and Services

9.9.4 Xiamen Faratronic High Temperature Film Capacitor for Automotive Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Xiamen Faratronic Recent Developments/Updates

9.9.6 Xiamen Faratronic Competitive Strengths & Weaknesses

## 9.10 Nantong Jianghai Capacitor

9.10.1 Nantong Jianghai Capacitor Details

9.10.2 Nantong Jianghai Capacitor Major Business

9.10.3 Nantong Jianghai Capacitor High Temperature Film Capacitor for Automotive Product and Services

9.10.4 Nantong Jianghai Capacitor High Temperature Film Capacitor for Automotive Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Nantong Jianghai Capacitor Recent Developments/Updates

9.10.6 Nantong Jianghai Capacitor Competitive Strengths & Weaknesses

## 9.11 EAGTOP

9.11.1 EAGTOP Details

- 9.11.2 EAGTOP Major Business
- 9.11.3 EAGTOP High Temperature Film Capacitor for Automotive Product and Services
- 9.11.4 EAGTOP High Temperature Film Capacitor for Automotive Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 EAGTOP Recent Developments/Updates
- 9.11.6 EAGTOP Competitive Strengths & Weaknesses
- 9.12 Anhui Tongfeng Electronics
  - 9.12.1 Anhui Tongfeng Electronics Details
  - 9.12.2 Anhui Tongfeng Electronics Major Business
  - 9.12.3 Anhui Tongfeng Electronics High Temperature Film Capacitor for Automotive Product and Services
  - 9.12.4 Anhui Tongfeng Electronics High Temperature Film Capacitor for Automotive Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.12.5 Anhui Tongfeng Electronics Recent Developments/Updates
  - 9.12.6 Anhui Tongfeng Electronics Competitive Strengths & Weaknesses
- 9.13 BM capacitors
  - 9.13.1 BM capacitors Details
  - 9.13.2 BM capacitors Major Business
  - 9.13.3 BM capacitors High Temperature Film Capacitor for Automotive Product and Services
  - 9.13.4 BM capacitors High Temperature Film Capacitor for Automotive Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.13.5 BM capacitors Recent Developments/Updates
  - 9.13.6 BM capacitors Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 High Temperature Film Capacitor for Automotive Industry Chain
- 10.2 High Temperature Film Capacitor for Automotive Upstream Analysis
  - 10.2.1 High Temperature Film Capacitor for Automotive Core Raw Materials
  - 10.2.2 Main Manufacturers of High Temperature Film Capacitor for Automotive Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 High Temperature Film Capacitor for Automotive Production Mode
- 10.6 High Temperature Film Capacitor for Automotive Procurement Model
- 10.7 High Temperature Film Capacitor for Automotive Industry Sales Model and Sales Channels

10.7.1 High Temperature Film Capacitor for Automotive Sales Model

10.7.2 High Temperature Film Capacitor for Automotive 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 High Temperature Film Capacitor for Automotive Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World High Temperature Film Capacitor for Automotive Production Value by Region (2021-2026) & (USD Million)

Table 3. World High Temperature Film Capacitor for Automotive Production Value by Region (2027-2032) & (USD Million)

Table 4. World High Temperature Film Capacitor for Automotive Production Value Market Share by Region (2021-2026)

Table 5. World High Temperature Film Capacitor for Automotive Production Value Market Share by Region (2027-2032)

Table 6. World High Temperature Film Capacitor for Automotive Production by Region (2021-2026) & (Million Units)

Table 7. World High Temperature Film Capacitor for Automotive Production by Region (2027-2032) & (Million Units)

Table 8. World High Temperature Film Capacitor for Automotive Production Market Share by Region (2021-2026)

Table 9. World High Temperature Film Capacitor for Automotive Production Market Share by Region (2027-2032)

Table 10. World High Temperature Film Capacitor for Automotive Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World High Temperature Film Capacitor for Automotive Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. High Temperature Film Capacitor for Automotive Major Market Trends

Table 13. World High Temperature Film Capacitor for Automotive Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)

Table 14. World High Temperature Film Capacitor for Automotive Consumption by Region (2021-2026) & (Million Units)

Table 15. World High Temperature Film Capacitor for Automotive Consumption Forecast by Region (2027-2032) & (Million Units)

Table 16. World High Temperature Film Capacitor for Automotive Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key High Temperature Film Capacitor for Automotive Producers in 2025

Table 18. World High Temperature Film Capacitor for Automotive Production by Manufacturer (2021-2026) & (Million Units)

Table 19. Production Market Share of Key High Temperature Film Capacitor for Automotive Producers in 2025

Table 20. World High Temperature Film Capacitor for Automotive Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global High Temperature Film Capacitor for Automotive Company Evaluation Quadrant

Table 22. World High Temperature Film Capacitor for Automotive Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and High Temperature Film Capacitor for Automotive Production Site of Key Manufacturer

Table 24. High Temperature Film Capacitor for Automotive Market: Company Product Type Footprint

Table 25. High Temperature Film Capacitor for Automotive Market: Company Product Application Footprint

Table 26. High Temperature Film Capacitor for Automotive Competitive Factors

Table 27. High Temperature Film Capacitor for Automotive New Entrant and Capacity Expansion Plans

Table 28. High Temperature Film Capacitor for Automotive Mergers & Acquisitions Activity

Table 29. United States VS China High Temperature Film Capacitor for Automotive Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China High Temperature Film Capacitor for Automotive Production Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 31. United States VS China High Temperature Film Capacitor for Automotive Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 32. United States Based High Temperature Film Capacitor for Automotive Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers High Temperature Film Capacitor for Automotive Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers High Temperature Film Capacitor for Automotive Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers High Temperature Film Capacitor for Automotive Production (2021-2026) & (Million Units)

Table 36. United States Based Manufacturers High Temperature Film Capacitor for Automotive Production Market Share (2021-2026)

Table 37. China Based High Temperature Film Capacitor for Automotive Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers High Temperature Film Capacitor for Automotive Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers High Temperature Film Capacitor for Automotive Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers High Temperature Film Capacitor for Automotive Production, (2021-2026) & (Million Units)

Table 41. China Based Manufacturers High Temperature Film Capacitor for Automotive Production Market Share (2021-2026)

Table 42. Rest of World Based High Temperature Film Capacitor for Automotive Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers High Temperature Film Capacitor for Automotive Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers High Temperature Film Capacitor for Automotive Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers High Temperature Film Capacitor for Automotive Production, (2021-2026) & (Million Units)

Table 46. Rest of World Based Manufacturers High Temperature Film Capacitor for Automotive Production Market Share (2021-2026)

Table 47. World High Temperature Film Capacitor for Automotive Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World High Temperature Film Capacitor for Automotive Production by Type (2021-2026) & (Million Units)

Table 49. World High Temperature Film Capacitor for Automotive Production by Type (2027-2032) & (Million Units)

Table 50. World High Temperature Film Capacitor for Automotive Production Value by Type (2021-2026) & (USD Million)

Table 51. World High Temperature Film Capacitor for Automotive Production Value by Type (2027-2032) & (USD Million)

Table 52. World High Temperature Film Capacitor for Automotive Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World High Temperature Film Capacitor for Automotive Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World High Temperature Film Capacitor for Automotive Production Value by Dielectric Material, (USD Million), 2021 & 2025 & 2032

Table 55. World High Temperature Film Capacitor for Automotive Production by Dielectric Material (2021-2026) & (Million Units)

Table 56. World High Temperature Film Capacitor for Automotive Production by Dielectric Material (2027-2032) & (Million Units)

Table 57. World High Temperature Film Capacitor for Automotive Production Value by Dielectric Material (2021-2026) & (USD Million)

Table 58. World High Temperature Film Capacitor for Automotive Production Value by

Dielectric Material (2027-2032) & (USD Million)

Table 59. World High Temperature Film Capacitor for Automotive Average Price by Dielectric Material (2021-2026) & (US\$/Unit)

Table 60. World High Temperature Film Capacitor for Automotive Average Price by Dielectric Material (2027-2032) & (US\$/Unit)

Table 61. World High Temperature Film Capacitor for Automotive Production Value by Product Structure, (USD Million), 2021 & 2025 & 2032

Table 62. World High Temperature Film Capacitor for Automotive Production by Product Structure (2021-2026) & (Million Units)

Table 63. World High Temperature Film Capacitor for Automotive Production by Product Structure (2027-2032) & (Million Units)

Table 64. World High Temperature Film Capacitor for Automotive Production Value by Product Structure (2021-2026) & (USD Million)

Table 65. World High Temperature Film Capacitor for Automotive Production Value by Product Structure (2027-2032) & (USD Million)

Table 66. World High Temperature Film Capacitor for Automotive Average Price by Product Structure (2021-2026) & (US\$/Unit)

Table 67. World High Temperature Film Capacitor for Automotive Average Price by Product Structure (2027-2032) & (US\$/Unit)

Table 68. World High Temperature Film Capacitor for Automotive Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World High Temperature Film Capacitor for Automotive Production by Application (2021-2026) & (Million Units)

Table 70. World High Temperature Film Capacitor for Automotive Production by Application (2027-2032) & (Million Units)

Table 71. World High Temperature Film Capacitor for Automotive Production Value by Application (2021-2026) & (USD Million)

Table 72. World High Temperature Film Capacitor for Automotive Production Value by Application (2027-2032) & (USD Million)

Table 73. World High Temperature Film Capacitor for Automotive Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World High Temperature Film Capacitor for Automotive Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Murata Manufacturing Basic Information, Manufacturing Base and Competitors

Table 76. Murata Manufacturing Major Business

Table 77. Murata Manufacturing High Temperature Film Capacitor for Automotive Product and Services

Table 78. Murata Manufacturing High Temperature Film Capacitor for Automotive

Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Murata Manufacturing Recent Developments/Updates

Table 80. Murata Manufacturing Competitive Strengths & Weaknesses

Table 81. Panasonic Basic Information, Manufacturing Base and Competitors

Table 82. Panasonic Major Business

Table 83. Panasonic High Temperature Film Capacitor for Automotive Product and Services

Table 84. Panasonic High Temperature Film Capacitor for Automotive Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Panasonic Recent Developments/Updates

Table 86. Panasonic Competitive Strengths & Weaknesses

Table 87. TDK Electronics Basic Information, Manufacturing Base and Competitors

Table 88. TDK Electronics Major Business

Table 89. TDK Electronics High Temperature Film Capacitor for Automotive Product and Services

Table 90. TDK Electronics High Temperature Film Capacitor for Automotive Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. TDK Electronics Recent Developments/Updates

Table 92. TDK Electronics Competitive Strengths & Weaknesses

Table 93. Yageo Basic Information, Manufacturing Base and Competitors

Table 94. Yageo Major Business

Table 95. Yageo High Temperature Film Capacitor for Automotive Product and Services

Table 96. Yageo High Temperature Film Capacitor for Automotive Production (Million Units), Price (US\$/Unit), 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. KYOCERA AVX Basic Information, Manufacturing Base and Competitors

Table 100. KYOCERA AVX Major Business

Table 101. KYOCERA AVX High Temperature Film Capacitor for Automotive Product and Services

Table 102. KYOCERA AVX High Temperature Film Capacitor for Automotive Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. KYOCERA AVX Recent Developments/Updates

Table 104. KYOCERA AVX Competitive Strengths & Weaknesses

Table 105. WIMA Basic Information, Manufacturing Base and Competitors

Table 106. WIMA Major Business

Table 107. WIMA High Temperature Film Capacitor for Automotive Product and Services

Table 108. WIMA High Temperature Film Capacitor for Automotive Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. WIMA Recent Developments/Updates

Table 110. WIMA Competitive Strengths & Weaknesses

Table 111. Vishay Basic Information, Manufacturing Base and Competitors

Table 112. Vishay Major Business

Table 113. Vishay High Temperature Film Capacitor for Automotive Product and Services

Table 114. Vishay High Temperature Film Capacitor for Automotive Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Vishay Recent Developments/Updates

Table 116. Vishay Competitive Strengths & Weaknesses

Table 117. Nichicon Basic Information, Manufacturing Base and Competitors

Table 118. Nichicon Major Business

Table 119. Nichicon High Temperature Film Capacitor for Automotive Product and Services

Table 120. Nichicon High Temperature Film Capacitor for Automotive Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Nichicon Recent Developments/Updates

Table 122. Nichicon Competitive Strengths & Weaknesses

Table 123. Xiamen Faratronic Basic Information, Manufacturing Base and Competitors

Table 124. Xiamen Faratronic Major Business

Table 125. Xiamen Faratronic High Temperature Film Capacitor for Automotive Product and Services

Table 126. Xiamen Faratronic High Temperature Film Capacitor for Automotive Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Xiamen Faratronic Recent Developments/Updates

Table 128. Xiamen Faratronic Competitive Strengths & Weaknesses

Table 129. Nantong Jianghai Capacitor Basic Information, Manufacturing Base and Competitors

Table 130. Nantong Jianghai Capacitor Major Business

- Table 131. Nantong Jianghai Capacitor High Temperature Film Capacitor for Automotive Product and Services
- Table 132. Nantong Jianghai Capacitor High Temperature Film Capacitor for Automotive Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Nantong Jianghai Capacitor Recent Developments/Updates
- Table 134. Nantong Jianghai Capacitor Competitive Strengths & Weaknesses
- Table 135. EAGTOP Basic Information, Manufacturing Base and Competitors
- Table 136. EAGTOP Major Business
- Table 137. EAGTOP High Temperature Film Capacitor for Automotive Product and Services
- Table 138. EAGTOP High Temperature Film Capacitor for Automotive Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. EAGTOP Recent Developments/Updates
- Table 140. EAGTOP Competitive Strengths & Weaknesses
- Table 141. Anhui Tongfeng Electronics Basic Information, Manufacturing Base and Competitors
- Table 142. Anhui Tongfeng Electronics Major Business
- Table 143. Anhui Tongfeng Electronics High Temperature Film Capacitor for Automotive Product and Services
- Table 144. Anhui Tongfeng Electronics High Temperature Film Capacitor for Automotive Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. Anhui Tongfeng Electronics Recent Developments/Updates
- Table 146. Anhui Tongfeng Electronics Competitive Strengths & Weaknesses
- Table 147. BM capacitors Basic Information, Manufacturing Base and Competitors
- Table 148. BM capacitors Major Business
- Table 149. BM capacitors High Temperature Film Capacitor for Automotive Product and Services
- Table 150. BM capacitors High Temperature Film Capacitor for Automotive Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. BM capacitors Recent Developments/Updates
- Table 152. BM capacitors Competitive Strengths & Weaknesses
- Table 153. Global Key Players of High Temperature Film Capacitor for Automotive Upstream (Raw Materials)
- Table 154. Global High Temperature Film Capacitor for Automotive Typical Customers
- Table 155. High Temperature Film Capacitor for Automotive Typical Distributors



## List Of Figures

### LIST OF FIGURES

Figure 1. High Temperature Film Capacitor for Automotive Picture

Figure 2. World High Temperature Film Capacitor for Automotive Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World High Temperature Film Capacitor for Automotive Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World High Temperature Film Capacitor for Automotive Production (2021-2032) & (Million Units)

Figure 5. World High Temperature Film Capacitor for Automotive Average Price (2021-2032) & (US\$/Unit)

Figure 6. World High Temperature Film Capacitor for Automotive Production Value Market Share by Region (2021-2032)

Figure 7. World High Temperature Film Capacitor for Automotive Production Market Share by Region (2021-2032)

Figure 8. North America High Temperature Film Capacitor for Automotive Production (2021-2032) & (Million Units)

Figure 9. Europe High Temperature Film Capacitor for Automotive Production (2021-2032) & (Million Units)

Figure 10. China High Temperature Film Capacitor for Automotive Production (2021-2032) & (Million Units)

Figure 11. Japan High Temperature Film Capacitor for Automotive Production (2021-2032) & (Million Units)

Figure 12. High Temperature Film Capacitor for Automotive Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World High Temperature Film Capacitor for Automotive Consumption (2021-2032) & (Million Units)

Figure 15. World High Temperature Film Capacitor for Automotive Consumption Market Share by Region (2021-2032)

Figure 16. United States High Temperature Film Capacitor for Automotive Consumption (2021-2032) & (Million Units)

Figure 17. China High Temperature Film Capacitor for Automotive Consumption (2021-2032) & (Million Units)

Figure 18. Europe High Temperature Film Capacitor for Automotive Consumption (2021-2032) & (Million Units)

Figure 19. Japan High Temperature Film Capacitor for Automotive Consumption (2021-2032) & (Million Units)

- Figure 20. South Korea High Temperature Film Capacitor for Automotive Consumption (2021-2032) & (Million Units)
- Figure 21. ASEAN High Temperature Film Capacitor for Automotive Consumption (2021-2032) & (Million Units)
- Figure 22. India High Temperature Film Capacitor for Automotive Consumption (2021-2032) & (Million Units)
- Figure 23. Producer Shipments of High Temperature Film Capacitor for Automotive by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 24. Global Four-firm Concentration Ratios (CR4) for High Temperature Film Capacitor for Automotive Markets in 2025
- Figure 25. Global Four-firm Concentration Ratios (CR8) for High Temperature Film Capacitor for Automotive Markets in 2025
- Figure 26. United States VS China: High Temperature Film Capacitor for Automotive Production Value Market Share Comparison (2021 & 2025 & 2032)
- Figure 27. United States VS China: High Temperature Film Capacitor for Automotive Production Market Share Comparison (2021 & 2025 & 2032)
- Figure 28. United States VS China: High Temperature Film Capacitor for Automotive Consumption Market Share Comparison (2021 & 2025 & 2032)
- Figure 29. United States Based Manufacturers High Temperature Film Capacitor for Automotive Production Market Share 2025
- Figure 30. China Based Manufacturers High Temperature Film Capacitor for Automotive Production Market Share 2025
- Figure 31. Rest of World Based Manufacturers High Temperature Film Capacitor for Automotive Production Market Share 2025
- Figure 32. World High Temperature Film Capacitor for Automotive Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 33. World High Temperature Film Capacitor for Automotive Production Value Market Share by Type in 2025
- Figure 34. AC Film Capacitors
- Figure 35. DC Film Capacitors
- Figure 36. World High Temperature Film Capacitor for Automotive Production Market Share by Type (2021-2032)
- Figure 37. World High Temperature Film Capacitor for Automotive Production Value Market Share by Type (2021-2032)
- Figure 38. World High Temperature Film Capacitor for Automotive Average Price by Type (2021-2032) & (US\$/Unit)
- Figure 39. World High Temperature Film Capacitor for Automotive Production Value by Dielectric Material, (USD Million), 2021 & 2025 & 2032
- Figure 40. World High Temperature Film Capacitor for Automotive Production Value

Market Share by Dielectric Material in 2025

Figure 41. Polypropylene

Figure 42. Polyester

Figure 43. Other

Figure 44. World High Temperature Film Capacitor for Automotive Production Market Share by Dielectric Material (2021-2032)

Figure 45. World High Temperature Film Capacitor for Automotive Production Value Market Share by Dielectric Material (2021-2032)

Figure 46. World High Temperature Film Capacitor for Automotive Average Price by Dielectric Material (2021-2032) & (US\$/Unit)

Figure 47. World High Temperature Film Capacitor for Automotive Production Value by Product Structure, (USD Million), 2021 & 2025 & 2032

Figure 48. World High Temperature Film Capacitor for Automotive Production Value Market Share by Product Structure in 2025

Figure 49. Wound Structure

Figure 50. Stacked Structure

Figure 51. World High Temperature Film Capacitor for Automotive Production Market Share by Product Structure (2021-2032)

Figure 52. World High Temperature Film Capacitor for Automotive Production Value Market Share by Product Structure (2021-2032)

Figure 53. World High Temperature Film Capacitor for Automotive Average Price by Product Structure (2021-2032) & (US\$/Unit)

Figure 54. World High Temperature Film Capacitor for Automotive Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World High Temperature Film Capacitor for Automotive Production Value Market Share by Application in 2025

Figure 56. BEV

Figure 57. PHEV

Figure 58. World High Temperature Film Capacitor for Automotive Production Market Share by Application (2021-2032)

Figure 59. World High Temperature Film Capacitor for Automotive Production Value Market Share by Application (2021-2032)

Figure 60. World High Temperature Film Capacitor for Automotive Average Price by Application (2021-2032) & (US\$/Unit)

Figure 61. High Temperature Film Capacitor for Automotive Industry Chain

Figure 62. High Temperature Film Capacitor for Automotive Procurement Model

Figure 63. High Temperature Film Capacitor for Automotive Sales Model

Figure 64. High Temperature Film Capacitor for Automotive Sales Channels, Direct Sales, and Distribution

Figure 65. Methodology

Figure 66. Research Process and Data Source

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