

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

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Abstracts

The global High Temperature Film Capacitor market size is expected to reach \$ 2322 million by 2032, rising at a market growth of 9.3% CAGR during the forecast period (2026-2032).

High temperature film capacitors are key passive components designed for power electronics applications with high thermal load and long lifetime requirements. They address the shortcomings of conventional 105°C film capacitors in new energy vehicle drive systems, onboard chargers, DC-DC converters, industrial inverters, solar inverters, energy storage converters, as well as aerospace and oil and gas environments, where temperature rise, ripple current, voltage stress, and humidity bias can accelerate degradation, constrain package size, and reduce reliability. Their core functions are DC bus energy buffering, smoothing and filtering, snubber protection, AC filtering, and EMI suppression. The main technology routes are typically built around metallized polypropylene film, PPS, PTFE, and proprietary high dielectric heat resistant films, combined with self healing structures, low loss design, low ESR, high ripple current capability, resin or plastic case encapsulation, enhanced THB performance, and reliability systems such as AEC-Q200, enabling continuous operation from 125°C to 200°C. Typical customers include OEMs and Tier 1 suppliers, industrial power supply and drive manufacturers, PV and energy storage inverter suppliers, rail transit companies, and special equipment manufacturers. Common delivery forms include PCB mounted DC-Link capacitors, snubber capacitors, AC filter capacitors, and customized high reliability modules, while the business model is mainly based on catalog series sales, automotive platform nomination, and project based co-development.

The essence of the high temperature film capacitor industry is shifting from being a heat resistant extension of conventional film capacitors to becoming a foundational device

category in high power density power electronics systems. In the past, film capacitors were more often viewed as general filtering and EMI suppression components, but the product positioning shown on the official websites of Murata, Vishay, KEMET, TDK, CDE, Kendeil, and Exxelia indicates that competition is now centered on continuous operation under elevated temperature, self healing behavior, ripple current capability, THB robustness, low loss, and miniaturization. In other words, product value is no longer defined by a single temperature rating, but by whether the device can maintain lifetime, efficiency, and safety margins simultaneously under high temperature, high voltage, high humidity, and high frequency operating conditions. As drive systems, onboard power units, energy storage converters, and high end industrial power supplies continue moving toward higher integration, higher efficiency, and higher thermal density, 125°C is gradually becoming a mainstream threshold rather than a premium niche. Meanwhile, 140°C, 150°C, and even 200°C products are expanding the addressable market in aerospace, oil and gas, defense, and other harsh environment applications.

On the demand side, the clearest growth driver for high temperature film capacitors comes from electric vehicles and renewable energy power electronics. According to the IEA, global electric car sales in 2025 are expected to exceed 20 million units and represent more than one quarter of all cars sold worldwide. That directly translates into continued demand expansion for high temperature DC-Link and related film capacitors used in traction inverters, onboard chargers, DC-DC converters, electric compressors, and auxiliary high voltage systems. At the same time, the IEA projects that global renewable power capacity additions from 2025 to 2030 will reach about 4,600 GW, with nearly 80% of the increase coming from solar. This will further expand the role of high temperature film capacitors in solar inverters, storage PCS, charging infrastructure, and advanced industrial drives. More importantly, EU CO2 rules for passenger cars and vans, China's medium and long term automotive industry policy, and sustained global investment in high efficiency power conversion and electrification are all reinforcing customer willingness to qualify and adopt highly reliable, high temperature grade components. As a result, the sector is likely to maintain strong momentum over the next several years.

From a competitive standpoint, the high temperature film capacitor market has already developed a clear regional division of strengths. Japanese suppliers hold strong first mover advantages in high temperature film materials, high dielectric heat resistant resins, automotive smoothing capacitors, and long term reliability. European and U.S. suppliers are especially strong in high voltage, high reliability, aerospace, defense, and harsh environment products. Chinese suppliers stand out in renewable energy

ecosystem support, manufacturing scale, delivery efficiency, and cost competitiveness. The industry is therefore unlikely to evolve into a simple low price market. Instead, it is more likely to stratify along four routes: automotive platform standardization, higher voltage industrial systems, extreme temperature solutions for special environments, and system miniaturization. For leading suppliers, the winners will be those that can integrate material systems, self healing mechanisms, packaging capability, reliability certification, and downstream application collaboration. That will determine who gains share during the upgrade cycle in xEV, energy storage, solar, rail transit, and special equipment. In this sense, high temperature film capacitors are not a narrow niche category, but a high quality growth track expanding in parallel with vehicle electrification, power electronics upgrading, and energy infrastructure transformation.

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

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

Highlights and key features of the study

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

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

Global High Temperature Film Capacitor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Pcs), (based on production site)

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

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

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

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

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

This report profiles key players in the global High Temperature Film Capacitor 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, Vishay, KEMET, Electrocube, Electronic Concepts, Exxelia, Kendeil, TDK Electronics, Xiamen Faratronic, Yageo, 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 market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Temperature Film Capacitor Market, Segmentation by Type:

PP (Polypropylene) Dielectrics

PET (Polyethylene Terephthalate) Dielectrics

PEN (Polyethylene Naphthalate) Dielectrics

PPS (Polyphenylene Sulphide) Dielectrics

Global High Temperature Film Capacitor Market, Segmentation by Circuit Role:

DC-Link Smoothing

Snubber Absorption

AC Filtering

EMI Suppression

Other

Global High Temperature Film Capacitor Market, Segmentation by Maximum Continuous Operating Temperature:

125°C Class

140°C Class

150°C Class

200°C Class

Other

Global High Temperature Film Capacitor Market, Segmentation by Application:

New Energy Vehicles

Industrial Power Electronics

New Energy Power Systems

Aerospace

Other

Companies Profiled:

Murata

Vishay

KEMET

Electrocube

Electronic Concepts

Exxelia

Kendeil

TDK Electronics

Xiamen Faratronic

Yageo

Shizuki Electric Co., Inc.

Rubycon Corporation

Nitsuko Electronics Co., Ltd.

Cornell Dubilier Electronics, Inc.

NANTONG HUASING ELECTRONICS CO., LTD.

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World High Temperature Film Capacitor Production Value by Manufacturer (2021-2026)

3.2 World High Temperature Film Capacitor Production by Manufacturer (2021-2026)

3.3 World High Temperature Film Capacitor Average Price by Manufacturer (2021-2026)

3.4 High Temperature Film Capacitor Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global High Temperature Film Capacitor Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for High Temperature Film Capacitor in 2025

3.5.3 Global Concentration Ratios (CR8) for High Temperature Film Capacitor in 2025

3.6 High Temperature Film Capacitor Market: Overall Company Footprint Analysis

3.6.1 High Temperature Film Capacitor Market: Region Footprint

3.6.2 High Temperature Film Capacitor Market: Company Product Type Footprint

3.6.3 High Temperature Film Capacitor 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 Production Value Comparison

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

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

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

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

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

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

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

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

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

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

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

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

4.5 China Based High Temperature Film Capacitor Manufacturers and Market Share

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

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

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

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

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

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

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

5 MARKET ANALYSIS BY TYPE

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

5.2 Segment Introduction by Type

5.2.1 PP (Polypropylene) Dielectrics

5.2.2 PET (Polyethylene Terephthalate) Dielectrics

5.2.3 PEN (Polyethylene Naphthalate) Dielectrics

5.2.4 PPS (Polyphenylene Sulphide) Dielectrics

5.3 Market Segment by Type

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

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

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

6 MARKET ANALYSIS BY CIRCUIT ROLE

6.1 World High Temperature Film Capacitor Market Size Overview by Circuit Role: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Circuit Role

6.2.1 DC-Link Smoothing

6.2.2 Snubber Absorption

6.2.3 AC Filtering

6.2.4 EMI Suppression

6.2.5 Other

6.3 Market Segment by Circuit Role

6.3.1 World High Temperature Film Capacitor Production by Circuit Role (2021-2032)

6.3.2 World High Temperature Film Capacitor Production Value by Circuit Role (2021-2032)

6.3.3 World High Temperature Film Capacitor Average Price by Circuit Role (2021-2032)

7 MARKET ANALYSIS BY MAXIMUM CONTINUOUS OPERATING TEMPERATURE

7.1 World High Temperature Film Capacitor Market Size Overview by Maximum Continuous Operating Temperature: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Maximum Continuous Operating Temperature

7.2.1 125°C Class

7.2.2 140°C Class

7.2.3 150°C Class

7.2.4 200°C Class

7.2.5 Other

7.3 Market Segment by Maximum Continuous Operating Temperature

7.3.1 World High Temperature Film Capacitor Production by Maximum Continuous Operating Temperature (2021-2032)

7.3.2 World High Temperature Film Capacitor Production Value by Maximum Continuous Operating Temperature (2021-2032)

7.3.3 World High Temperature Film Capacitor Average Price by Maximum Continuous Operating Temperature (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World High Temperature Film Capacitor Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 New Energy Vehicles
 - 8.2.2 Industrial Power Electronics
 - 8.2.3 New Energy Power Systems
 - 8.2.4 Aerospace
 - 8.2.5 Other
- 8.3 Market Segment by Application
 - 8.3.1 World High Temperature Film Capacitor Production by Application (2021-2032)
 - 8.3.2 World High Temperature Film Capacitor Production Value by Application (2021-2032)
 - 8.3.3 World High Temperature Film Capacitor Average Price by Application (2021-2032)

9 COMPANY PROFILES

- 9.1 Murata
 - 9.1.1 Murata Details
 - 9.1.2 Murata Major Business
 - 9.1.3 Murata High Temperature Film Capacitor Product and Services
 - 9.1.4 Murata High Temperature Film Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.1.5 Murata Recent Developments/Updates
 - 9.1.6 Murata Competitive Strengths & Weaknesses
- 9.2 Vishay
 - 9.2.1 Vishay Details
 - 9.2.2 Vishay Major Business
 - 9.2.3 Vishay High Temperature Film Capacitor Product and Services
 - 9.2.4 Vishay High Temperature Film Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Vishay Recent Developments/Updates
 - 9.2.6 Vishay Competitive Strengths & Weaknesses
- 9.3 KEMET
 - 9.3.1 KEMET Details
 - 9.3.2 KEMET Major Business
 - 9.3.3 KEMET High Temperature Film Capacitor Product and Services
 - 9.3.4 KEMET High Temperature Film Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.3.5 KEMET Recent Developments/Updates
- 9.3.6 KEMET Competitive Strengths & Weaknesses
- 9.4 Electrocube
 - 9.4.1 Electrocube Details
 - 9.4.2 Electrocube Major Business
 - 9.4.3 Electrocube High Temperature Film Capacitor Product and Services
 - 9.4.4 Electrocube High Temperature Film Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Electrocube Recent Developments/Updates
 - 9.4.6 Electrocube Competitive Strengths & Weaknesses
- 9.5 Electronic Concepts
 - 9.5.1 Electronic Concepts Details
 - 9.5.2 Electronic Concepts Major Business
 - 9.5.3 Electronic Concepts High Temperature Film Capacitor Product and Services
 - 9.5.4 Electronic Concepts High Temperature Film Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Electronic Concepts Recent Developments/Updates
 - 9.5.6 Electronic Concepts Competitive Strengths & Weaknesses
- 9.6 Exxelia
 - 9.6.1 Exxelia Details
 - 9.6.2 Exxelia Major Business
 - 9.6.3 Exxelia High Temperature Film Capacitor Product and Services
 - 9.6.4 Exxelia High Temperature Film Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Exxelia Recent Developments/Updates
 - 9.6.6 Exxelia Competitive Strengths & Weaknesses
- 9.7 Kendeil
 - 9.7.1 Kendeil Details
 - 9.7.2 Kendeil Major Business
 - 9.7.3 Kendeil High Temperature Film Capacitor Product and Services
 - 9.7.4 Kendeil High Temperature Film Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Kendeil Recent Developments/Updates
 - 9.7.6 Kendeil Competitive Strengths & Weaknesses
- 9.8 TDK Electronics
 - 9.8.1 TDK Electronics Details
 - 9.8.2 TDK Electronics Major Business
 - 9.8.3 TDK Electronics High Temperature Film Capacitor Product and Services
 - 9.8.4 TDK Electronics High Temperature Film Capacitor Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.8.5 TDK Electronics Recent Developments/Updates

9.8.6 TDK Electronics 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 Product and Services

9.9.4 Xiamen Faratronic High Temperature Film Capacitor 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 Yageo

9.10.1 Yageo Details

9.10.2 Yageo Major Business

9.10.3 Yageo High Temperature Film Capacitor Product and Services

9.10.4 Yageo High Temperature Film Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Yageo Recent Developments/Updates

9.10.6 Yageo Competitive Strengths & Weaknesses

9.11 Shizuki Electric Co., Inc.

9.11.1 Shizuki Electric Co., Inc. Details

9.11.2 Shizuki Electric Co., Inc. Major Business

9.11.3 Shizuki Electric Co., Inc. High Temperature Film Capacitor Product and Services

9.11.4 Shizuki Electric Co., Inc. High Temperature Film Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Shizuki Electric Co., Inc. Recent Developments/Updates

9.11.6 Shizuki Electric Co., Inc. Competitive Strengths & Weaknesses

9.12 Rubycon Corporation

9.12.1 Rubycon Corporation Details

9.12.2 Rubycon Corporation Major Business

9.12.3 Rubycon Corporation High Temperature Film Capacitor Product and Services

9.12.4 Rubycon Corporation High Temperature Film Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Rubycon Corporation Recent Developments/Updates

9.12.6 Rubycon Corporation Competitive Strengths & Weaknesses

9.13 Nitsuko Electronics Co., Ltd.

9.13.1 Nitsuko Electronics Co., Ltd. Details

9.13.2 Nitsuko Electronics Co., Ltd. Major Business

9.13.3 Nitsuko Electronics Co., Ltd. High Temperature Film Capacitor Product and

Services

9.13.4 Nitsuko Electronics Co., Ltd. High Temperature Film Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Nitsuko Electronics Co., Ltd. Recent Developments/Updates

9.13.6 Nitsuko Electronics Co., Ltd. Competitive Strengths & Weaknesses

9.14 Cornell Dubilier Electronics, Inc.

9.14.1 Cornell Dubilier Electronics, Inc. Details

9.14.2 Cornell Dubilier Electronics, Inc. Major Business

9.14.3 Cornell Dubilier Electronics, Inc. High Temperature Film Capacitor Product and Services

9.14.4 Cornell Dubilier Electronics, Inc. High Temperature Film Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Cornell Dubilier Electronics, Inc. Recent Developments/Updates

9.14.6 Cornell Dubilier Electronics, Inc. Competitive Strengths & Weaknesses

9.15 NANTONG HUASING ELECTRONICS CO., LTD.

9.15.1 NANTONG HUASING ELECTRONICS CO., LTD. Details

9.15.2 NANTONG HUASING ELECTRONICS CO., LTD. Major Business

9.15.3 NANTONG HUASING ELECTRONICS CO., LTD. High Temperature Film Capacitor Product and Services

9.15.4 NANTONG HUASING ELECTRONICS CO., LTD. High Temperature Film Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 NANTONG HUASING ELECTRONICS CO., LTD. Recent Developments/Updates

9.15.6 NANTONG HUASING ELECTRONICS CO., LTD. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 High Temperature Film Capacitor Industry Chain

10.2 High Temperature Film Capacitor Upstream Analysis

10.2.1 High Temperature Film Capacitor Core Raw Materials

10.2.2 Main Manufacturers of High Temperature Film Capacitor Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 High Temperature Film Capacitor Production Mode

10.6 High Temperature Film Capacitor Procurement Model

10.7 High Temperature Film Capacitor Industry Sales Model and Sales Channels

10.7.1 High Temperature Film Capacitor Sales Model

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

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

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

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

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

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

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

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

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

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

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

Table 12. High Temperature Film Capacitor Major Market Trends

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

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

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

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

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

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

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

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

Table 21. Global High Temperature Film Capacitor Company Evaluation Quadrant

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

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

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

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

Table 26. High Temperature Film Capacitor Competitive Factors

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

Table 28. High Temperature Film Capacitor Mergers & Acquisitions Activity

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 54. World High Temperature Film Capacitor Production Value by Circuit Role, (USD Million), 2021 & 2025 & 2032

Table 55. World High Temperature Film Capacitor Production by Circuit Role (2021-2026) & (Million Pcs)

Table 56. World High Temperature Film Capacitor Production by Circuit Role (2027-2032) & (Million Pcs)

Table 57. World High Temperature Film Capacitor Production Value by Circuit Role (2021-2026) & (USD Million)

Table 58. World High Temperature Film Capacitor Production Value by Circuit Role (2027-2032) & (USD Million)

Table 59. World High Temperature Film Capacitor Average Price by Circuit Role (2021-2026) & (US\$/Pcs)

Table 60. World High Temperature Film Capacitor Average Price by Circuit Role

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

Table 61. World High Temperature Film Capacitor Production Value by Maximum Continuous Operating Temperature, (USD Million), 2021 & 2025 & 2032

Table 62. World High Temperature Film Capacitor Production by Maximum Continuous Operating Temperature (2021-2026) & (Million Pcs)

Table 63. World High Temperature Film Capacitor Production by Maximum Continuous Operating Temperature (2027-2032) & (Million Pcs)

Table 64. World High Temperature Film Capacitor Production Value by Maximum Continuous Operating Temperature (2021-2026) & (USD Million)

Table 65. World High Temperature Film Capacitor Production Value by Maximum Continuous Operating Temperature (2027-2032) & (USD Million)

Table 66. World High Temperature Film Capacitor Average Price by Maximum Continuous Operating Temperature (2021-2026) & (US\$/Pcs)

Table 67. World High Temperature Film Capacitor Average Price by Maximum Continuous Operating Temperature (2027-2032) & (US\$/Pcs)

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

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

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

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

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

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

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

Table 75. Murata Basic Information, Manufacturing Base and Competitors

Table 76. Murata Major Business

Table 77. Murata High Temperature Film Capacitor Product and Services

Table 78. Murata High Temperature Film Capacitor Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Murata Recent Developments/Updates

Table 80. Murata Competitive Strengths & Weaknesses

Table 81. Vishay Basic Information, Manufacturing Base and Competitors

Table 82. Vishay Major Business

Table 83. Vishay High Temperature Film Capacitor Product and Services
Table 84. Vishay High Temperature Film Capacitor Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Vishay Recent Developments/Updates
Table 86. Vishay Competitive Strengths & Weaknesses
Table 87. KEMET Basic Information, Manufacturing Base and Competitors
Table 88. KEMET Major Business
Table 89. KEMET High Temperature Film Capacitor Product and Services
Table 90. KEMET High Temperature Film Capacitor Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. KEMET Recent Developments/Updates
Table 92. KEMET Competitive Strengths & Weaknesses
Table 93. Electrocube Basic Information, Manufacturing Base and Competitors
Table 94. Electrocube Major Business
Table 95. Electrocube High Temperature Film Capacitor Product and Services
Table 96. Electrocube High Temperature Film Capacitor Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Electrocube Recent Developments/Updates
Table 98. Electrocube Competitive Strengths & Weaknesses
Table 99. Electronic Concepts Basic Information, Manufacturing Base and Competitors
Table 100. Electronic Concepts Major Business
Table 101. Electronic Concepts High Temperature Film Capacitor Product and Services
Table 102. Electronic Concepts High Temperature Film Capacitor Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Electronic Concepts Recent Developments/Updates
Table 104. Electronic Concepts Competitive Strengths & Weaknesses
Table 105. Exxelia Basic Information, Manufacturing Base and Competitors
Table 106. Exxelia Major Business
Table 107. Exxelia High Temperature Film Capacitor Product and Services
Table 108. Exxelia High Temperature Film Capacitor Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Exxelia Recent Developments/Updates
Table 110. Exxelia Competitive Strengths & Weaknesses
Table 111. Kendeil Basic Information, Manufacturing Base and Competitors

Table 112. Kendeil Major Business

Table 113. Kendeil High Temperature Film Capacitor Product and Services

Table 114. Kendeil High Temperature Film Capacitor Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Kendeil Recent Developments/Updates

Table 116. Kendeil Competitive Strengths & Weaknesses

Table 117. TDK Electronics Basic Information, Manufacturing Base and Competitors

Table 118. TDK Electronics Major Business

Table 119. TDK Electronics High Temperature Film Capacitor Product and Services

Table 120. TDK Electronics High Temperature Film Capacitor Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. TDK Electronics Recent Developments/Updates

Table 122. TDK Electronics 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 Product and Services

Table 126. Xiamen Faratronic High Temperature Film Capacitor Production (Million Pcs), Price (US\$/Pcs), 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. Yageo Basic Information, Manufacturing Base and Competitors

Table 130. Yageo Major Business

Table 131. Yageo High Temperature Film Capacitor Product and Services

Table 132. Yageo High Temperature Film Capacitor Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Yageo Recent Developments/Updates

Table 134. Yageo Competitive Strengths & Weaknesses

Table 135. Shizuki Electric Co., Inc. Basic Information, Manufacturing Base and Competitors

Table 136. Shizuki Electric Co., Inc. Major Business

Table 137. Shizuki Electric Co., Inc. High Temperature Film Capacitor Product and Services

Table 138. Shizuki Electric Co., Inc. High Temperature Film Capacitor Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Shizuki Electric Co., Inc. Recent Developments/Updates
Table 140. Shizuki Electric Co., Inc. Competitive Strengths & Weaknesses
Table 141. Rubycon Corporation Basic Information, Manufacturing Base and Competitors
Table 142. Rubycon Corporation Major Business
Table 143. Rubycon Corporation High Temperature Film Capacitor Product and Services
Table 144. Rubycon Corporation High Temperature Film Capacitor Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. Rubycon Corporation Recent Developments/Updates
Table 146. Rubycon Corporation Competitive Strengths & Weaknesses
Table 147. Nitsuko Electronics Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 148. Nitsuko Electronics Co., Ltd. Major Business
Table 149. Nitsuko Electronics Co., Ltd. High Temperature Film Capacitor Product and Services
Table 150. Nitsuko Electronics Co., Ltd. High Temperature Film Capacitor Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. Nitsuko Electronics Co., Ltd. Recent Developments/Updates
Table 152. Nitsuko Electronics Co., Ltd. Competitive Strengths & Weaknesses
Table 153. Cornell Dubilier Electronics, Inc. Basic Information, Manufacturing Base and Competitors
Table 154. Cornell Dubilier Electronics, Inc. Major Business
Table 155. Cornell Dubilier Electronics, Inc. High Temperature Film Capacitor Product and Services
Table 156. Cornell Dubilier Electronics, Inc. High Temperature Film Capacitor Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. Cornell Dubilier Electronics, Inc. Recent Developments/Updates
Table 158. Cornell Dubilier Electronics, Inc. Competitive Strengths & Weaknesses
Table 159. NANTONG HUASING ELECTRONICS CO., LTD. Basic Information, Manufacturing Base and Competitors
Table 160. NANTONG HUASING ELECTRONICS CO., LTD. Major Business
Table 161. NANTONG HUASING ELECTRONICS CO., LTD. High Temperature Film Capacitor Product and Services
Table 162. NANTONG HUASING ELECTRONICS CO., LTD. High Temperature Film Capacitor Production (Million Pcs), Price (US\$/Pcs), Production Value (USD Million),

Gross Margin and Market Share (2021-2026)

Table 163. NANTONG HUASING ELECTRONICS CO., LTD. Recent Developments/Updates

Table 164. NANTONG HUASING ELECTRONICS CO., LTD. Competitive Strengths & Weaknesses

Table 165. Global Key Players of High Temperature Film Capacitor Upstream (Raw Materials)

Table 166. Global High Temperature Film Capacitor Typical Customers

Table 167. High Temperature Film Capacitor Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. High Temperature Film Capacitor Picture

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

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

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

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

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

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

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

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

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

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

Figure 12. South Korea High Temperature Film Capacitor Production (2021-2032) & (Million Pcs)

Figure 13. China Taiwan High Temperature Film Capacitor Production (2021-2032) & (Million Pcs)

Figure 14. High Temperature Film Capacitor Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World High Temperature Film Capacitor Consumption (2021-2032) & (Million Pcs)

Figure 17. World High Temperature Film Capacitor Consumption Market Share by Region (2021-2032)

Figure 18. United States High Temperature Film Capacitor Consumption (2021-2032) & (Million Pcs)

Figure 19. China High Temperature Film Capacitor Consumption (2021-2032) & (Million Pcs)

Figure 20. Europe High Temperature Film Capacitor Consumption (2021-2032) & (Million Pcs)

Figure 21. Japan High Temperature Film Capacitor Consumption (2021-2032) & (Million Pcs)

Figure 22. South Korea High Temperature Film Capacitor Consumption (2021-2032) & (Million Pcs)

Figure 23. ASEAN High Temperature Film Capacitor Consumption (2021-2032) & (Million Pcs)

Figure 24. India High Temperature Film Capacitor Consumption (2021-2032) & (Million Pcs)

Figure 25. Producer Shipments of High Temperature Film Capacitor by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for High Temperature Film Capacitor Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for High Temperature Film Capacitor Markets in 2025

Figure 28. United States VS China: High Temperature Film Capacitor Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: High Temperature Film Capacitor Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: High Temperature Film Capacitor Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers High Temperature Film Capacitor Production Market Share 2025

Figure 32. China Based Manufacturers High Temperature Film Capacitor Production Market Share 2025

Figure 33. Rest of World Based Manufacturers High Temperature Film Capacitor Production Market Share 2025

Figure 34. World High Temperature Film Capacitor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World High Temperature Film Capacitor Production Value Market Share by Type in 2025

Figure 36. PP (Polypropylene) Dielectrics

Figure 37. PET (Polyethylene Terephthalate) Dielectrics

Figure 38. PEN (Polyethylene Naphthalate) Dielectrics

Figure 39. PPS (Polyphenylene Sulphide) Dielectrics

Figure 40. World High Temperature Film Capacitor Production Market Share by Type (2021-2032)

Figure 41. World High Temperature Film Capacitor Production Value Market Share by

Type (2021-2032)

Figure 42. World High Temperature Film Capacitor Average Price by Type (2021-2032) & (US\$/Pcs)

Figure 43. World High Temperature Film Capacitor Production Value by Circuit Role, (USD Million), 2021 & 2025 & 2032

Figure 44. World High Temperature Film Capacitor Production Value Market Share by Circuit Role in 2025

Figure 45. DC-Link Smoothing

Figure 46. Snubber Absorption

Figure 47. AC Filtering

Figure 48. EMI Suppression

Figure 49. Other

Figure 50. World High Temperature Film Capacitor Production Market Share by Circuit Role (2021-2032)

Figure 51. World High Temperature Film Capacitor Production Value Market Share by Circuit Role (2021-2032)

Figure 52. World High Temperature Film Capacitor Average Price by Circuit Role (2021-2032) & (US\$/Pcs)

Figure 53. World High Temperature Film Capacitor Production Value by Maximum Continuous Operating Temperature, (USD Million), 2021 & 2025 & 2032

Figure 54. World High Temperature Film Capacitor Production Value Market Share by Maximum Continuous Operating Temperature in 2025

Figure 55. 125°C Class

Figure 56. 140°C Class

Figure 57. 150°C Class

Figure 58. 200°C Class

Figure 59. Other

Figure 60. World High Temperature Film Capacitor Production Market Share by Maximum Continuous Operating Temperature (2021-2032)

Figure 61. World High Temperature Film Capacitor Production Value Market Share by Maximum Continuous Operating Temperature (2021-2032)

Figure 62. World High Temperature Film Capacitor Average Price by Maximum Continuous Operating Temperature (2021-2032) & (US\$/Pcs)

Figure 63. World High Temperature Film Capacitor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 64. World High Temperature Film Capacitor Production Value Market Share by Application in 2025

Figure 65. New Energy Vehicles

Figure 66. Industrial Power Electronics

Figure 67. New Energy Power Systems

Figure 68. Aerospace

Figure 69. Other

Figure 70. World High Temperature Film Capacitor Production Market Share by Application (2021-2032)

Figure 71. World High Temperature Film Capacitor Production Value Market Share by Application (2021-2032)

Figure 72. World High Temperature Film Capacitor Average Price by Application (2021-2032) & (US\$/Pcs)

Figure 73. High Temperature Film Capacitor Industry Chain

Figure 74. High Temperature Film Capacitor Procurement Model

Figure 75. High Temperature Film Capacitor Sales Model

Figure 76. High Temperature Film Capacitor Sales Channels, Direct Sales, and Distribution

Figure 77. Methodology

Figure 78. Research Process and Data Source

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