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Global High-temperature Automotive-grade Film Capacitor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global High-temperature Automotive-grade Film Capacitor market size was valued at US$ 1080 million in 2025 and is forecast to a readjusted size of US$ 1893 million by 2032 with a CAGR of 8.3% during review period.

High-temperature Automotive-grade Film Capacitor is a high-reliability automotive film capacitor designed for high-temperature and high-voltage vehicle electronic systems, mainly covering DC-link film capacitors, EMI suppression film capacitors, and snubber film capacitors used in automotive power conversion and electronic control circuits. Through metallized polypropylene dielectric structures, the product provides stable voltage smoothing, ripple current absorption, electromagnetic interference suppression, and transient voltage protection under harsh automotive operating conditions. Compared with conventional automotive capacitors, it offers stronger heat resistance, better long-term capacitance stability, and improved reliability in continuous high-temperature environments. Its advantages include strong interference suppression capability, long service life, high safety reliability, low dielectric loss, and stable capacitance performance. In 2025, production was 175 million units and the average price was USD 6 per unit. The industry’s capacity utilization rate in 2025 was about 80% and the average gross margin was around 30%. Upstream, the core inputs for High-temperature Automotive-grade Film Capacitor are polypropylene base film, especially BOPP film, and aluminum metallized coating materials, with representative suppliers including Toray Industries, Toyobo, Bollor?, Steinerfilm, Anhui Tongfeng Electronics, Xiamen Faratronic, and Chalco providing key film and metal material support. The midstream segment focuses on base film pretreatment, vacuum metallization, precision winding, thermal pressing, spraying, encapsulation, aging,

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automotive-grade reliability testing, and high-temperature performance validation, which determine self-healing capability, insulation strength, capacitance stability, and long-term operating reliability. Downstream, High-temperature Automotive-grade Film Capacitor is mainly used in automotive applications, with representative customers including Tesla, Toyota, Volkswagen, BYD, Hyundai Motor, BMW, and Mercedes-Benz.

High-temperature Automotive-grade Film Capacitor will gain more use as electric vehicles place higher thermal and electrical stress on DC-link, EMI suppression, and snubber capacitor positions. In traction inverters, on-board chargers, DC-DC converters, and electric drive control circuits, it helps stabilize voltage, suppress interference, absorb transient energy, and maintain capacitance stability under high-temperature conditions. Future development will be driven by 800V platforms, higher power density modules, fast-charging systems, and stricter automotive reliability requirements, with product upgrades focusing on heat endurance, low loss, long life, and stable operation in compact power electronics.

This report is a detailed and comprehensive analysis for global High-temperature Automotive-grade Film Capacitor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global High-temperature Automotive-grade Film Capacitor market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global High-temperature Automotive-grade Film Capacitor market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global High-temperature Automotive-grade Film Capacitor market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

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Global High-temperature Automotive-grade Film Capacitor market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for High-temperature Automotive-grade Film Capacitor

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global High-temperature Automotive-grade Film Capacitor market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Panasonic (Japan), Yageo (Taiwan), Xiamen Faratronic (China), Anhui Tongfeng Electronic (China), Nichicon (Japan), TDK Corporation (Japan), Eagtop (China), Nantong Jianghai Capacitor (China), Guangdong Fengming Electronic Technology (China), Vishay (USA), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

High-temperature Automotive-grade Film Capacitor market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

DC-Link Film Capacitor

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EMI Suppression Film Capacitor

Snubber Film Capacitor

Others

Market segment by Capacitance Range

Capacitance

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