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Global Automotive-grade Film Capacitor for PCB 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 Automotive-grade Film Capacitor for PCB market size was valued at US$ 309 million in 2025 and is forecast to a readjusted size of US$ 554 million by 2032 with a CAGR of 8.8% during review period.

Automotive-grade Film Capacitor for PCB is an automotive-grade film capacitor designed for printed circuit board applications in vehicle power, charging, and thermal management systems, providing stable filtering, voltage smoothing, interference suppression, and insulation reliability under high temperature, vibration, and high-voltage operating conditions. Its advantages include high reliability, low dielectric loss, strong heat resistance, stable capacitance performance, long service life, and strong adaptability to automotive-grade operating environments. In 2025, production was 150 million units and the average price was USD 2 per unit. The industry’s capacity utilization rate in 2025 was about 80% and the average gross margin was around 28%. Upstream, the core inputs for Automotive-grade Film Capacitor for PCB 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, automotive-grade reliability testing, and safety certification, which determine capacitance stability, insulation strength, heat resistance, vibration resistance, and long-term operating reliability. Downstream, Automotive-grade Film Capacitor for PCB is mainly used in powertrain systems, charging systems, and thermal management systems, with representative customers including Tesla, Toyota,

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Volkswagen, BYD, Hyundai Motor, BMW, and Mercedes-Benz.

Automotive-grade Film Capacitor for PCB will gain more use as vehicle powertrain, charging, and thermal management systems require higher circuit stability, stronger insulation reliability, and better resistance to heat and vibration. In automotive PCB assemblies, it supports filtering, voltage smoothing, interference suppression, and long-term reliability under harsh electrical conditions. Future development will be driven by electric vehicle platform upgrades, higher charging power, integrated thermal control modules, and stricter automotive-grade reliability standards, with product improvement focused on miniaturization, heat resistance, stable capacitance, and longer service life.

This report is a detailed and comprehensive analysis for global Automotive-grade Film Capacitor for PCB 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 Automotive-grade Film Capacitor for PCB market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Automotive-grade Film Capacitor for PCB 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 Automotive-grade Film Capacitor for PCB 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

Global Automotive-grade Film Capacitor for PCB 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:

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

To assess the growth potential for Automotive-grade Film Capacitor for PCB

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 Automotive-grade Film Capacitor for PCB 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

Automotive-grade Film Capacitor for PCB 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

X2

Y2

Others

Market segment by Capacitance Range

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Capacitance

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