

Global Automotive-Grade Ceramic Capacitors 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 Ceramic Capacitors market size was valued at US\$ 4450 million in 2025 and is forecast to a readjusted size of US\$ 7284 million by 2032 with a CAGR of 7.4% during review period.

Automotive-grade ceramic capacitors are multilayer ceramic capacitors that meet automotive reliability standards such as AEC-Q200. They are widely used in automotive electronic systems for filtering, decoupling, energy storage, and signal stabilization. Featuring multilayer ceramic dielectric structures with metal electrodes, these components offer high reliability, high-temperature resistance (125°C-150°C+), vibration tolerance, long lifespan, and low failure rates, making them essential passive components in modern automotive electronics. In 2025, global sales of automotive-grade ceramic capacitors will be 173 billion units, with an average sales price of US\$25/thousand units and an industry gross profit margin of approximately 20%-50%. The automotive-grade ceramic capacitors industry chain consists of upstream materials, midstream manufacturing, and downstream applications. Upstream includes ceramic powders (e.g., barium titanate), electrode materials (nickel, copper, silver-palladium), binders, and production equipment. Material purity and formulation are critical to performance and represent key technical barriers. Midstream manufacturing involves complex processes such as tape casting, electrode printing, multilayer stacking, cutting, sintering, plating, and reliability testing. Automotive-grade ceramic capacitors require strict certification (e.g., AEC-Q200), long development cycles, and high yield rates. Downstream applications include automotive electronics such as powertrain systems (BMS, inverters), body electronics (ECUs), ADAS, and infotainment. With EV and intelligent driving adoption, demand for high-capacitance, high-voltage, and high-

temperature ceramic capacitors is rapidly increasing, driving industry upgrades.

This report is a detailed and comprehensive analysis for global Automotive-Grade Ceramic Capacitors 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 Ceramic Capacitors market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive-Grade Ceramic Capacitors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive-Grade Ceramic Capacitors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive-Grade Ceramic Capacitors market shares of main players, shipments in revenue (\$ Million), sales quantity (Million 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 Automotive-Grade Ceramic Capacitors

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 Ceramic Capacitors 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 Murata, Samsung Electro-Mechanics, TDK, Kyocera, Yageo, Walsin Technology, Vishay, Taiyo Yuden, Fenghua Advanced Technology, Chaozhou Three-Circle, etc.

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

Market Segmentation

Automotive-Grade Ceramic Capacitors 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

X7R

X5R

Others

Market segment by Voltage Level

Low Voltage (?50V)

Medium Voltage (50?500V)

High Voltage (?500V)

Market segment by Application

Powertrain

Body Electronics

ADAS

Major players covered

Murata

Samsung Electro-Mechanics

TDK

Kyocera

Yageo

Walsin Technology

Vishay

Taiyo Yuden

Fenghua Advanced Technology

Chaozhou Three-Circle

EYANG Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Automotive-Grade Ceramic Capacitors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive-Grade Ceramic Capacitors, with price, sales quantity, revenue, and global market share of Automotive-Grade Ceramic Capacitors from 2021 to 2026.

Chapter 3, the Automotive-Grade Ceramic Capacitors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive-Grade Ceramic Capacitors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Automotive-Grade Ceramic Capacitors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automotive-Grade Ceramic Capacitors.

Chapter 14 and 15, to describe Automotive-Grade Ceramic Capacitors sales

channel, distributors, customers, research findings and conclusion.

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