

Global Class 1 Capacitors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Class 1 Capacitors market size is expected to reach \$ 3910 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

Class 1 Capacitors are electronic components with high stability, typically made from ceramic materials like COG/NP0. These capacitors are designed to maintain a stable capacitance under temperature changes, voltage fluctuations, and other environmental factors. Due to their low temperature coefficient, Class 1 capacitors are highly stable, making them ideal for use in high-precision applications.

These capacitors are usually small in size, with cylindrical or rectangular shapes, and can have either leaded or surface-mount configurations. They are primarily used in applications where high accuracy and long-term stability are essential, such as in high-frequency circuits, clock circuits, filters, and precision instruments.

The production of Class 1 capacitors requires advanced materials and manufacturing techniques to ensure their capacitance remains stable across a wide range of temperatures and voltages. They are particularly valuable in industries such as aerospace, medical equipment, and high-end communication systems, where stability and reliability are critical.

Key manufacturers of Class 1 capacitors include Renesas, Murata Manufacturing, TDK Corporation, and Samsung Electro-Mechanics, who utilize state-of-the-art production processes to deliver high-quality capacitors for use in demanding environments.

As electronic technology continues to evolve, Class 1 capacitors are showing significant market potential, especially in industries that require high precision and stability, such

as aerospace, military, communication, and healthcare. The global electronic components market is expanding, driving the demand for Class 1 capacitors. With the ongoing innovations in high-tech fields such as the Internet of Things (IoT), 5G communication, autonomous driving technology, and artificial intelligence (AI), the need for high-performance capacitors is increasing. In particular, in fields such as 5G base stations, satellite communication, aerospace, and high-precision instruments, Class 1 capacitors have become a critical component due to their excellent stability and long-term reliability. In the future, as the global demand for high-quality, highly stable electronic devices continues to rise, the market for Class 1 capacitors will have broader growth opportunities. Additionally, as smart devices become more integrated into daily life, especially in smart medical devices and high-end consumer electronics, the demand for Class 1 capacitors will continue to grow.

However, the Class 1 capacitor market faces certain challenges and risks. First, the price fluctuations of raw materials have a significant impact on production costs, especially the price changes of ceramic materials and other precision materials, which may pressure capacitor manufacturers in cost control. Secondly, due to the complex manufacturing process and high precision requirements of Class 1 capacitors, there is a risk of defective products during production, leading to increased production costs. In addition, the uncertainty of the global trade environment is another important factor affecting market development, especially when the import of key raw materials is restricted, which may disrupt the production supply chain for Class 1 capacitors. Finally, with the growing emphasis on environmental protection, how to meet environmental standards and reduce waste emissions during the production process has become another challenge for manufacturers. In response to these risks and challenges, capacitor manufacturers need to optimize production processes, reduce costs, and enhance product reliability to deal with market uncertainties.

Regarding downstream demand trends, as the level of intelligence and automation increases, industries are experiencing a growing demand for electronic components with high precision and stability. Especially with the widespread adoption of 5G communication technology, the demand for base station construction and high-frequency communication equipment is surging, driving the application of Class 1 capacitors in these fields. At the same time, with the development of autonomous driving technology, the demand for electronic systems in this field is also growing, and Class 1 capacitors, as key components with high stability and long lifespan, have become a fundamental part of autonomous driving technology. In the healthcare field, as smart medical devices become more widely used and the demand for high-precision medical instruments increases, the market demand for Class 1 capacitors is also

growing rapidly. Furthermore, with the increased awareness of environmental protection, the durability and energy efficiency of electronic products have become key considerations. Class 1 capacitors are widely used in energy-efficient, long-life electronic products. In the future, as industries such as high-end consumer electronics, smart hardware, and industrial control increasingly demand high-performance capacitors, Class 1 capacitors will occupy a more significant position in these downstream markets, further expanding their market size.

This report studies the global Class 1 Capacitors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Class 1 Capacitors 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 Class 1 Capacitors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Class 1 Capacitors total production and demand, 2021-2032, (K Units)

Global Class 1 Capacitors total production value, 2021-2032, (USD Million)

Global Class 1 Capacitors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Class 1 Capacitors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Class 1 Capacitors domestic production, consumption, key domestic manufacturers and share

Global Class 1 Capacitors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Class 1 Capacitors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Class 1 Capacitors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Class 1 Capacitors 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, Samsung Electro-Mechanics, TDK Corporation, YAGEO Corporation, Taiyo Yuden, Vishay Intertechnology, KYOCERA AVX Components Corporation, Walsin Technology

Corporation, Maruwa, Samwha Capacitor Group, 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 Class 1 Capacitors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Class 1 Capacitors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Class 1 Capacitors Market, Segmentation by Type:

0.1 pF - 1000 pF

1000 pF - 1 uF

Others

Global Class 1 Capacitors Market, Segmentation by Manufacturing Process:

Sintered Ceramic Capacitors

Multilayer Ceramic Capacitors (MLCC)

Single Layer Ceramic Capacitors

Global Class 1 Capacitors Market, Segmentation by Delivery Method:

Bulk Pack Ceramic Capacitors

Tape & Reel Ceramic Capacitors

Tray Pack Ceramic Capacitors

Global Class 1 Capacitors Market, Segmentation by Chemical Composition:

Barium Titanate Ceramic Capacitors

Lead-based Ceramic Capacitors

Non-lead Ceramic Capacitors

Global Class 1 Capacitors Market, Segmentation by Application:

Aerospace and Defense

Automotive and Transportation

Data and Telecom

Consumer Electronics

Companies Profiled:

Murata Manufacturing

Samsung Electro-Mechanics

TDK Corporation

YAGEO Corporation

Taiyo Yuden

Vishay Intertechnology

KYOCERA AVX Components Corporation

Walsin Technology Corporation

Maruwa

Samwha Capacitor Group

Darfon Electronics Corp

Nichicon Corporation

Panasonic Holdings Corporation

KOA Corporation

Rubycon Corporation

Cornell Dubilier Electronics

Holy Stone Enterprise

Faratronic

Presidio Components

Exxelia Alcon Electronics

Nippon Chemi-Con Corporation

Key Questions Answered:

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

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