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Capacitor Market Forecasts to 2034 – Global Analysis By Product (Electrolytic Capacitors, Ceramic Capacitors, Tantalum Capacitors, Film Capacitors, Electrochemical Capacitors, Variable Capacitors and Other Products), Mounting Type (Surface Mounted and Through-Hole), Voltage, Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Capacitor Market is accounted for $30.5 billion in 2026 and is expected to reach $56.1 billion by 2034 growing at a CAGR of 7.9% during the forecast period. A capacitor is an electronic component that stores electrical energy in an electric field. Comprising two conductive plates separated by an insulating material, it can store and release charge rapidly. Capacitors are vital in electronic circuits for smoothing voltage fluctuations, filtering signals, and timing applications. Capacitors ensures stability and proper functioning by regulating voltage and controlling the flow of electrical signals within circuits.

According to GSMA Mobile Economy 2021, in terms of multilayer ceramic capacitor demand for IoT devices, North America is expected to lead the market through 2025 with 5.1 billion.

Market Dynamics:

Driver:

Miniaturization of electronic devices

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The miniaturization of electronic devices has been compelling manufacturers to produce compact and efficient capacitors. As electronic devices become smaller and more sophisticated, there is an increasing demand for capacitors with higher energy density, smaller form factors, and improved performance. This trend has led to advancements in capacitor technology, fostering innovation and competition in the market as companies strive to meet the evolving requirements of miniaturized electronics.

Restraint:

Fluctuations in raw material costs

The capacitor industry heavily relies on materials like aluminum, tantalum, and ceramics. Volatile price movements in these raw materials impact manufacturing expenses, leading to uncertain production costs. These uncertainties make it challenging for capacitor manufacturers to maintain stable production costs and pricing strategies. Consequently, the capacitor industry faces increased risks and uncertainties, impacting profit margins and overall market stability.

Opportunity:

Growing 5G technology deployment

Advanced capacitors are becoming more and more necessary to sustain the infrastructure of 5G networks, which require higher frequencies and quicker data transfer rates. In order to maintain the dependability and effectiveness of 5G equipment, capacitors are essential for filtering and stabilizing electrical signals. Thereby, the rapid global rollout of 5G technology is driving up demand for high-performance capacitors, creating new growth opportunities in the capacitor industry.

Threat:

Rising availability of counterfeit products

Counterfeits undermine product reliability, safety, and performance, leading to potential malfunctions in electronic devices. This surge in counterfeit capacitor production not only jeopardizes consumer trust but also poses economic challenges for legitimate manufacturers. The rise in counterfeit capacitors also challenges efforts to maintain quality standards and regulatory compliance within the industry. Therefore, this aspect

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is hampering the market growth.

Covid-19 Impact

The covid-19 pandemic has significantly impacted the market. Supply chain disruptions, labor shortages, fluctuations in raw material prices and reduced manufacturing capacity have led to increased costs and delays in production. The global economic slowdown has affected demand, particularly in industries like automotive and consumer electronics. Despite challenges, there's a growing demand for capacitors in healthcare equipment and technology infrastructure, driven by increased reliance on remote communication and medical devices.

The electrochemical capacitors segment is expected to be the largest during the forecast period

The electrochemical capacitors segment is estimated to have a lucrative growth. Electrochemical capacitors are energy storage devices that store and release electrical energy through electrostatic charge separation. They use electrolytes and high surface area electrodes to achieve higher capacitance. Their unique combination of high power density, long cycle life, and fast charging capabilities distinguishes them from other energy storage technologies, providing versatile solutions for various technological and industrial applications.

The consumer electronics segment is expected to have the highest CAGR during the forecast period

The consumer electronics segment is anticipated to witness the highest CAGR growth during the forecast period. Capacitors play a crucial role in consumer electronics by storing and releasing electrical energy, enhancing device performance. They stabilize voltage, filter out noise, and improve power factor correction, ensuring consistent and efficient operation. Overall, capacitors contribute to the efficient and reliable functioning of consumer electronics, improving performance, reducing interference, and extending the lifespan of electronic devices.

Region with largest share:

Asia Pacific is projected to hold the largest market share during the forecast period owing to the increasing demand in electronic devices, automotive applications, and renewable energy projects. The region's expanding industrialization, rapid technological

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advancements, and rising consumer electronics consumption contribute to the market's upward trajectory. The region, comprising key economies like China, Japan, South Korea, and India, is witnessing a surge in capacitor adoption for energy storage, power electronics, and electronic devices. Rising investments in infrastructure and the growing focus on renewable energy projects further contribute to the market's expansion.

Region with highest CAGR:

North America is projected to have the highest CAGR over the forecast period, owing to the augmented demand across electronics, automotive, and telecommunications industries. The region is home to key players namely Murata Manufacturing, Illinois Capacitor, Panasonic Corporation and Eaton Corporation. Factors such as technological advancements, rising consumer electronics consumption, and the automotive sector's expansion contribute to market expansion. Additionally, the push towards miniaturization and increased efficiency in electronic devices in the US and Canada are further fuelling the demand.

Key players in the market

Some of the key players profiled in the Capacitor Market include Murata Manufacturing Limited, TDK Corporation, Nichicon Corporation, Vishay Intertechnology Inc, KEMET Corporation, Panasonic Corporation, AVX Corporation, Rubycon Corporation, W?rth Elektronik Group, Nippon Chemi-Con Corporation, Kyocera Corporation, Cornell Dubilier Electronics Inc, Yageo Corporation, Samsung Electro-Mechanics Limited, Illinois Capacitor Inc, Rohm Semiconductor, Tantalum Corporation, CapXon International Electronic Limited, Honeywell International and Lelon Electronics Corporation.

Key Developments:

In November 2023, ROHM has developed the BTD1RVFL series, a new line of silicon capacitors. By utilizing thin-film technology, their silicon capacitors offer a greater capacitance in a thinner form compared to the current multilayer ceramic capacitors (MLCCs) available in the market.

In April 2023, Kyocera Corporation announced that the company's Electronic Components Division developed a new capacitor (MLCC) with EIA 0201 size, with a capacitance of 10 microfarads, which the company claims to be the industry's highest among MLCCs in the 0201 case size. The dimensions of the capacitor are 0.6 mm x 0.3

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mm.

In February 2022, Murata launched the NFM15HC435D0E3 MLCC, designed with 3 terminals to provide a capacitance of 4.3 F. The capacitor is designed for automotive applications to attain results on noise removal and superior decoupling that are required for high-performance processors employed in advanced driver assistance systems and autonomous driving functions.

Products Covered:

- Electrolytic Capacitors
- Ceramic Capacitors
- Tantalum Capacitors
- Film Capacitors
- Electrochemical Capacitors
- Variable Capacitors
- Other Products

Mounting Types Covered:

- Surface Mounted
- Through-Hole

Voltages Covered:

- Up To 500 V
- 501 To 1000 V
- 1001 To 2000 V

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Above 2000 V

Applications Covered:

Consumer Electronics

Automotive Electronics

Industrial Electronics

Power Supply Systems

Medical Devices

Defense & Aerospace

Renewable Energy

Telecommunications

Other Applications

End Users Covered:

Original Equipment Manufacturers (OEMs)

Electronic Component Distributors

Electronics Manufacturing Services (EMS) Providers

Other End Users

Regions Covered:

North America

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- US
- Canada
- Mexico

Europe

- Germany
- UK
- Italy
- France
- Spain
- Rest of Europe

Asia Pacific

- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

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Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

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Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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