

Global Silicon Capacitors Market Report and Forecast 2023-2028

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Report description:

Global Silicon Capacitors Market Report and Forecast 2023-2028

Market Outlook

According to the report by Expert Market Research (EMR), the global silicon capacitors market reached a value of USD 1640.17 million in 2022. Aided by the increasing demand for electronic devices and advancements in semiconductor technology, the market is projected to grow at a CAGR of 7.7% between 2023 and 2028, reaching a value of USD 2597.56 million by 2028. Silicon capacitors are essential components in electronic circuits, providing energy storage and ensuring stable voltage supply across various applications. They offer superior performance characteristics, such as high reliability, low leakage current, and stable capacitance over a wide temperature range. Due to these properties silicon capacitors are widely used in industries such as aerospace, automotive, telecommunication, and consumer electronics.

The global silicon capacitors market is impacted by factors such as the increasing demand for consumer electronics, the miniaturisation of electronic devices, and improvements in semiconductor technology. Moreover, the rise in the adoption of electric vehicles, which require high-performance capacitors, is expected to further propel the market growth.

Nearly four out of every ten silicon capacitors sold worldwide are employed in telecommunications equipment. The silicon capacitors market is further being stimulated by the rising demand for thin-film transmission lines that are highly efficient with high RF (radio frequency). Manufacturers of aerospace and defence components are showing a trend towards component miniaturisation, which is predicted to lead to a rise in silicon capacitor adoption. Throughout the forecast period, the silicon capacitors market is anticipated to be driven by the expansion of the aerospace and defence industries in developing markets. The Asia Pacific region is currently leading the global silicon capacitors market, with countries like China, Japan, and South Korea being the largest consumers. The region's dominance can be attributed to the presence of numerous electronic device manufacturers, strong investments in research and development, and the growing consumer electronics industry. Furthermore, the rapid urbanisation and rising disposable income in the region have led to increased demand for smartphones, tablets, and other electronic gadgets, boosting the global silicon capacitors market.

Market Segmentation

The market can be divided based on structure, distribution channel, application, and region.

Market Breakup by Structure

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-□Deep-Trench Capacitor

-□MNOS Capacitor

-□MIS Capacitor

Market Breakup by Distribution Channel

-□Online

-□Offline

Market Breakup by Application

-□Automotive

-□Aerospace and Defence

-□Telecommunication

-□Healthcare

-□Others

Market Breakup by Region

-□North America

-□Europe

-□Asia Pacific

-□Latin America

-□Middle East and Africa

Competitive Landscape

The EMR report looks into the market shares, plant turnarounds, capacities, investments, and acquisitions and mergers, among other major developments, of the global silicon capacitors companies. Some of the major key players explored in the report by Expert Market Research are as follows:

-□Arrow Electronics, Inc.

-□Murata Manufacturing Co., Ltd.

-□Microsemi Corporation

-□Skyworks Solution, Inc.

-□Vishay Intertechnology, Inc.

-□MACOM Technology Solutions Inc.

-□Others

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