

Oven-Controlled Crystal Oscillator (OCXO) Market by Type, Mounting Scheme (Surface Mount, Through-hole), Application (Consumer Electronics, Telecom & Networking, military & aerospace, Industrial, Automotive, Medical) and Region - Global Forecast to 2028

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Abstracts

The global OCXO market was valued at USD 464 million in 2023 and is projected to reach USD 528 million by 2028; it is expected to register a CAGR of 2.6% during the forecast period. The expanding telecommunications industry and widening application scope of OCXOs are among the factors driving the growth of the OCXO market. Key players operating in the OCXO market are Seiko Epson Corporation (Japan), NIHON DEMPA KOGYO CO., LTD. (Japan), TXC Corporation (Taiwan), Daishinku Corp. (Japan), and Microchip Technology Inc. (US)

The surface mount segment is projected to grow at a higher CAGR during the forecast period

In 2022, the surface mount segment held a larger share of the OCXO market. The growth of this segment can be attributed to the miniaturization of components, high analog and digital signal transmission speed, high-frequency effects, and improved yield and production efficiency. Surface-mount oscillators incur low material and production costs and involve a simple production process. Hence, such crystal oscillators are increasingly being used in consumer electronics and telecom & networking applications.

EMXO segment to register growth at higher CAGR

In 2022, the EMXO segment held a larger share of the OCXO market. EMXO's performance is stable and dependable under demanding operational circumstances because of the vacuum-sealed architecture. EMXOs find applications in battery-powered radio applications, seismic exploration, deep space missions, telecom transmission and switching equipment, wireless communication equipment, and military airborne and mobile systems.

Telecom & Networking application is likely to grow at a higher CAGR

Telecom & Networking application is likely to experience the highest CAGR during the forecast period. The demand for oscillators is expected to grow with the expansion of communication networks as well as the installation of 5G networks in the coming years. The requirement for reliable synchronization, accurate timing, and precise frequency references in diverse network applications drives the overall demand for OCXOs in the telecom & network industry.

Asia Pacific to register growth at highest CAGR

Globally, Asia Pacific constitutes the largest market for OCXO owing to rapid developments in China, Japan, Taiwan, and South Korea and the growing demand for telecommunication in other Asian countries. The population growth and rapid urbanization in developing economies, such as China and Japan, have accelerated regional development, boosting the demand for OCXO from the telecom and networking, consumer electronics, military and aerospace, research and measurement, industrial, automotive, and medical industries. Asia Pacific dominated the OCXO market due to the presence of OXCO manufacturing companies such as Seiko Epson Corporation, NIHON DEMPA KOGYO CO., LTD., TXC Corporation, Daishinku Corp., etc., in this region.

Breakdown of primaries

The study contains insights from various industry experts, ranging from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

By Company Type - Tier 1 – 25%, Tier 2 – 35%, Tier 3 – 40%

By Designation— C-level Executives - 40%, Managers - 30%, Others – 30%

By Region—North America - 42%, Europe - 25%, Asia Pacific - 21%, RoW - 12%

The OCXO market is dominated by a few globally established players such as Seiko Epson Corporation (Japan), NIHON DEMPA KOGYO CO., LTD. (Japan), TXC Corporation (Taiwan), Daishinku Corp. (Japan), Microchip Technology Inc. (US), SiTime Corporation (US), Rakon Limited. (New Zealand), Abracon (US), Mercury Electronic Ind. Co., Ltd. (Taiwan), Greenray Industries, Inc. (US), MTI-Milliren Technologies, Inc. (US), QVS Tech, Inc. (US), Bliley Technologies, Inc. (US), CTS Corporation (US), Micro Crystal AG (Switzerland), MtronPTI (US), IQD Frequency Products (UK), Raltron Electronics (US), ECS Inc. (US), and AXTAL GmbH (Germany). The study includes an in-depth competitive analysis of these key players in the OCXO market, with their company profiles, recent developments, and key market strategies.

Research Coverage:

The report segments the OCXO market and forecasts its mounting scheme, by type, by application, and region. The report also discusses the drivers, restraints, opportunities, and challenges pertaining to the market. It gives a detailed view of the market across four main regions—Americas, Europe, Asia Pacific, and RoW. Supply chain analysis has been included in the report, along with the key players and their competitive analysis in the OCXO ecosystem.

Key Benefits to Buy the Report:

Analysis of key drivers (Expanding telecommunications industry and widening application scope of OCXOs). Restraint (Higher power consumption of OCXOs). Opportunity (Growing need for high-precision timing and frequency stability due to network densification and rising need for electronic device miniaturization, improved performance, and increased functionality). Challenges (High manufacturing costs compared with other oscillators and stability issues in crystal oscillators).

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the OCXO market.

Market Development: Comprehensive information about lucrative markets – the report analyses the OCXO market across varied regions

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the OCXO market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Seiko Epson Corporation (Japan), NIHON DEMPA KOGYO CO., LTD. (Japan), TXC Corporation (Taiwan), Daishinku Corp. (Japan), Microchip Technology Inc. (US). among others in the OCXO market.

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*Details on Business Overview, Products/Solutions/Services Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

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