

# Global Quartz Crystals and Oscillators Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Quartz Crystals and Oscillators market size will reach 4,732.42 Million USD in 2025 and is projected to reach 9,064.86 Million USD by 2032, with a CAGR of 9.73% (2025-2032). Notably, the China Quartz Crystals and Oscillators market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

Quartz crystals and oscillators are integral components in electronic devices that rely on precise timekeeping and frequency control. Quartz crystals exhibit the piezoelectric effect, meaning they generate an electrical charge in response to mechanical stress. When a voltage is applied to a quartz crystal, it vibrates at a specific resonant frequency, determined by its size and cut. This inherent property makes quartz crystals ideal for creating stable oscillators used in electronic circuits. Quartz crystal oscillators provide accurate and reliable timing signals, serving as the heartbeat for numerous applications, including clocks, microcontrollers, communication systems, and precision instruments. The oscillators ensure consistent and predictable frequencies, contributing to the overall reliability and performance of electronic devices across various industries.

The major global manufacturers of Quartz Crystals and Oscillators include TXC, Seiko Epson, Nihon Dempa Kogyo (NDK), Kyocera Crystal Device (KCD), Daishinku Corp (KDS), Vectron (Microchip), Rakon, TKD Science and Technology, Murata/TEW, Hosonic Electronic, Siward Crystal Technology, Micro Crystal, Diodes Incorporated,

Harmony Electronics Corp (H.ELE.), Failong Crystal Technologies, Tai-Saw Technology, River Eletec, AnHui Jing Sai Technology, Taitien, ZheJiang East Crystal, Abracon, NSK (JenJaan Quartek Corporation), Aker Technology, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Quartz Crystals and Oscillators. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Quartz Crystals and Oscillators market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Quartz Crystals and Oscillators market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Quartz Crystals and Oscillators industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Quartz Crystals and Oscillators Include:

TXC

Seiko Epson

Nihon Dempa Kogyo (NDK)

Kyocera Crystal Device (KCD)

Daishinku Corp (KDS)

Vectron (Microchip)

Rakon

TKD Science and Technology

Murata/TEW

Hosonic Electronic

Siward Crystal Technology

Micro Crystal

Diodes Incorporated

Harmony Electronics Corp (H.ELE.)

Failong Crystal Technologies

Tai-Saw Technology

River Eletec

AnHui Jing Sai Technology

Taitien

ZheJiang East Crystal

Abracon

NSK (JenJaan Quatek Corporation)

Aker Technology

Quartz Crystals and Oscillators Product Segment Include:

SPXO

TCXO

VCXO

OCXO

Quartz Crystal

Quartz Crystals and Oscillators Product Application Include:

Consumer Electronics

Automotive

Home Appliance

IT & Telecommunication

Medical Equipment

Others

## **Chapter Scope**

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