

Crystal Oscillator Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global crystal oscillator market size reached US\$ 2.9 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 4.0 Billion by 2028, exhibiting a growth rate (CAGR) of 5.51% during 2022-2028.

A crystal oscillator is an electronic circuit that creates an electrical signal with a constant frequency using the mechanical resonance of a vibrating crystal of piezoelectric material. It is commonly used to keep track of time in wristwatches, provide a stable clock signal in digital integrated circuits, and stabilize frequencies for radio transmitters and receivers. Moreover, as it can convert electrical energy to mechanical energy and vice versa, it is widely utilized as a sound generator, microphone, and force transducer. At present, atomic oscillators find extensive usage in fields that require high and long-term accuracy and stability.

Crystal Oscillator Market Trends:

Expanding applications of crystal oscillators in different fields represent one of the major factors influencing the market positively. For instance, they are employed in the military and aerospace sectors for efficient communication, navigation purposes, and electronic warfare (EW) in the guidance systems. This, in confluence with the rising focus of military organizations on digitalizing equipment with advanced technologies on account of increasing geopolitical tensions between countries, is contributing to market growth. Moreover, crystal oscillators are used in medical devices and measuring instruments as well as for celestial navigation and space tracking. Apart from this, crystal oscillators are finding applications in electronics, such as computers, digital systems, modems, sensors, disk drives, cameras, mobile phones, and radio systems. In addition, the escalating demand for consumer electronics is impelling the market growth.

Furthermore, they are gaining traction in phase-locked loop systems, telecommunications, cable televisions, toys and video games, and global positioning system (GPS) technology. The boosting sales of vehicles are also increasing the adoption of crystal oscillators in the automotive industry worldwide.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global crystal oscillator market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type, crystal cutting type, mounting scheme and end user.

Breakup by Type:

- Voltage-Controlled Crystal Oscillator
- Temperature-Compensated Crystal Oscillator
- Oven-Controlled Crystal Oscillator
- Others

Breakup by Crystal Cutting Type:

- AT Cut
- BT Cut
- SC Cut
- Others

Breakup by Mounting Scheme:

- Surface Mount
- Thru-Hole

Breakup by End User:

- Electronics
- IT and Telecommunication
- Military and Defense
- Automotive and Transport
- Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being CTS Corporation, Daishinku Corp., KYOCERA Corporation, Microchip Technology Inc., Murata Manufacturing Co. Ltd., Nihon Dempa Kogyo Co. Ltd., Rakon Limited, River Eletec Corporation, Seiko Epson Corporation, Siward Crystal Technology Co. Ltd. and TXC Corporation.

Key Questions Answered in This Report

1. What is the expected growth rate of the global crystal oscillator market during 2023-2028?
2. What are the key factors driving the global crystal oscillator market?
3. What has been the impact of COVID-19 on the global crystal oscillator market?
4. What is the breakup of the global crystal oscillator market based on the type?

5. What is the breakup of the global crystal oscillator market based on the crystal cutting type?
6. What is the breakup of the global crystal oscillator market based on the mounting scheme?
7. What is the breakup of the global crystal oscillator market based on the end user?
8. What are the key regions in the global crystal oscillator market?
9. Who are the key players/companies in the global crystal oscillator market?

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