

Crystal Oscillator Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

<https://marketpublishers.com/r/C14BBC0F7744EN.html>

Date: August 2022

Pages: 145

Price: US\$ 2,499.00 (Single User License)

ID: C14BBC0F7744EN

Abstracts

The global crystal oscillator market size reached US\$ 2.8 Billion in 2021. Looking forward, IMARC Group expects the market to reach US\$ 3.8 Billion by 2027, exhibiting a growth rate (CAGR) of 5.4% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use industries. These insights are included in the report as a major market contributor.

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 2022-2027. 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 2022-2027?

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?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL CRYSTAL OSCILLATOR MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY TYPE

- 6.1 Voltage-Controlled Crystal Oscillator
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Temperature-Compensated Crystal Oscillator
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Oven-Controlled Crystal Oscillator

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Others
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast

7 MARKET BREAKUP BY CRYSTAL CUTTING TYPE

- 7.1 AT Cut
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 BT Cut
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 SC Cut
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 7.4 Others
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast

8 MARKET BREAKUP BY MOUNTING SCHEME

- 8.1 Surface Mount
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Thru-Hole
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast

9 MARKET BREAKUP BY END USER

- 9.1 Electronics
 - 9.1.1 Market Trends
 - 9.1.2 Market Forecast
- 9.2 IT and Telecommunication
 - 9.2.1 Market Trends
 - 9.2.2 Market Forecast
- 9.3 Military and Defense

- 9.3.1 Market Trends
- 9.3.2 Market Forecast
- 9.4 Automotive and Transport
 - 9.4.1 Market Trends
 - 9.4.2 Market Forecast
- 9.5 Others
 - 9.5.1 Market Trends
 - 9.5.2 Market Forecast

10 MARKET BREAKUP BY REGION

- 10.1 North America
 - 10.1.1 United States
 - 10.1.1.1 Market Trends
 - 10.1.1.2 Market Forecast
 - 10.1.2 Canada
 - 10.1.2.1 Market Trends
 - 10.1.2.2 Market Forecast
- 10.2 Asia-Pacific
 - 10.2.1 China
 - 10.2.1.1 Market Trends
 - 10.2.1.2 Market Forecast
 - 10.2.2 Japan
 - 10.2.2.1 Market Trends
 - 10.2.2.2 Market Forecast
 - 10.2.3 India
 - 10.2.3.1 Market Trends
 - 10.2.3.2 Market Forecast
 - 10.2.4 South Korea
 - 10.2.4.1 Market Trends
 - 10.2.4.2 Market Forecast
 - 10.2.5 Australia
 - 10.2.5.1 Market Trends
 - 10.2.5.2 Market Forecast
 - 10.2.6 Indonesia
 - 10.2.6.1 Market Trends
 - 10.2.6.2 Market Forecast
 - 10.2.7 Others
 - 10.2.7.1 Market Trends

- 10.2.7.2 Market Forecast
- 10.3 Europe
 - 10.3.1 Germany
 - 10.3.1.1 Market Trends
 - 10.3.1.2 Market Forecast
 - 10.3.2 France
 - 10.3.2.1 Market Trends
 - 10.3.2.2 Market Forecast
 - 10.3.3 United Kingdom
 - 10.3.3.1 Market Trends
 - 10.3.3.2 Market Forecast
 - 10.3.4 Italy
 - 10.3.4.1 Market Trends
 - 10.3.4.2 Market Forecast
 - 10.3.5 Spain
 - 10.3.5.1 Market Trends
 - 10.3.5.2 Market Forecast
 - 10.3.6 Russia
 - 10.3.6.1 Market Trends
 - 10.3.6.2 Market Forecast
 - 10.3.7 Others
 - 10.3.7.1 Market Trends
 - 10.3.7.2 Market Forecast
- 10.4 Latin America
 - 10.4.1 Brazil
 - 10.4.1.1 Market Trends
 - 10.4.1.2 Market Forecast
 - 10.4.2 Mexico
 - 10.4.2.1 Market Trends
 - 10.4.2.2 Market Forecast
 - 10.4.3 Others
 - 10.4.3.1 Market Trends
 - 10.4.3.2 Market Forecast
- 10.5 Middle East and Africa
 - 10.5.1 Market Trends
 - 10.5.2 Market Breakup by Country
 - 10.5.3 Market Forecast

11 SWOT ANALYSIS

- 11.1 Overview
- 11.2 Strengths
- 11.3 Weaknesses
- 11.4 Opportunities
- 11.5 Threats

12 VALUE CHAIN ANALYSIS

13 PORTERS FIVE FORCES ANALYSIS

- 13.1 Overview
- 13.2 Bargaining Power of Buyers
- 13.3 Bargaining Power of Suppliers
- 13.4 Degree of Competition
- 13.5 Threat of New Entrants
- 13.6 Threat of Substitutes

14 PRICE ANALYSIS

15 COMPETITIVE LANDSCAPE

- 15.1 Market Structure
- 15.2 Key Players
- 15.3 Profiles of Key Players
 - 15.3.1 CTS Corporation
 - 15.3.1.1 Company Overview
 - 15.3.1.2 Product Portfolio
 - 15.3.1.3 Financials
 - 15.3.2 Daishinku Corp.
 - 15.3.2.1 Company Overview
 - 15.3.2.2 Product Portfolio
 - 15.3.2.3 Financials
 - 15.3.3 KYOCERA Corporation
 - 15.3.3.1 Company Overview
 - 15.3.3.2 Product Portfolio
 - 15.3.3.3 Financials
 - 15.3.3.4 SWOT Analysis
 - 15.3.4 Microchip Technology Inc.

- 15.3.4.1 Company Overview
- 15.3.4.2 Product Portfolio
- 15.3.4.3 Financials
- 15.3.4.4 SWOT Analysis
- 15.3.5 Murata Manufacturing Co. Ltd.
 - 15.3.5.1 Company Overview
 - 15.3.5.2 Product Portfolio
 - 15.3.5.3 Financials
 - 15.3.5.4 SWOT Analysis
- 15.3.6 Nihon Dempa Kogyo Co. Ltd.
 - 15.3.6.1 Company Overview
 - 15.3.6.2 Product Portfolio
 - 15.3.6.3 Financials
- 15.3.7 Rakon Limited
 - 15.3.7.1 Company Overview
 - 15.3.7.2 Product Portfolio
 - 15.3.7.3 Financials
- 15.3.8 River Eletec Corporation
 - 15.3.8.1 Company Overview
 - 15.3.8.2 Product Portfolio
 - 15.3.8.3 Financials
- 15.3.9 Seiko Epson Corporation
 - 15.3.9.1 Company Overview
 - 15.3.9.2 Product Portfolio
 - 15.3.9.3 Financials
 - 15.3.9.4 SWOT Analysis
- 15.3.10 Siward Crystal Technology Co. Ltd.
 - 15.3.10.1 Company Overview
 - 15.3.10.2 Product Portfolio
 - 15.3.10.3 Financials
- 15.3.11 TXC Corporation
 - 15.3.11.1 Company Overview
 - 15.3.11.2 Product Portfolio
 - 15.3.11.3 Financials

List Of Tables

LIST OF TABLES

Table 1: Global: Crystal Oscillator Market: Key Industry Highlights, 2021 and 2027

Table 2: Global: Crystal Oscillator Market Forecast: Breakup by Type (in Million US\$), 2022-2027

Table 3: Global: Crystal Oscillator Market Forecast: Breakup by Crystal Cutting Type (in Million US\$), 2022-2027

Table 4: Global: Crystal Oscillator Market Forecast: Breakup by Mounting Scheme (in Million US\$), 2022-2027

Table 5: Global: Crystal Oscillator Market Forecast: Breakup by End User (in Million US\$), 2022-2027

Table 6: Global: Crystal Oscillator Market Forecast: Breakup by Region (in Million US\$), 2022-2027

Table 7: Global: Crystal Oscillator Market: Competitive Structure

Table 8: Global: Crystal Oscillator Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Crystal Oscillator Market: Major Drivers and Challenges

Figure 2: Global: Crystal Oscillator Market: Sales Value (in Billion US\$), 2016-2021

Figure 3: Global: Crystal Oscillator Market Forecast: Sales Value (in Billion US\$), 2022-2027

Figure 4: Global: Crystal Oscillator Market: Breakup by Type (in %), 2021

Figure 5: Global: Crystal Oscillator Market: Breakup by Crystal Cutting Type (in %), 2021

Figure 6: Global: Crystal Oscillator Market: Breakup by Mounting Scheme (in %), 2021

Figure 7: Global: Crystal Oscillator Market: Breakup by End User (in %), 2021

Figure 8: Global: Crystal Oscillator Market: Breakup by Region (in %), 2021

Figure 9: Global: Crystal Oscillator (Voltage-Controlled Crystal Oscillator) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 10: Global: Crystal Oscillator (Voltage-Controlled Crystal Oscillator) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 11: Global: Crystal Oscillator (Temperature-Compensated Crystal Oscillator) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 12: Global: Crystal Oscillator (Temperature-Compensated Crystal Oscillator) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 13: Global: Crystal Oscillator (Oven-Controlled Crystal Oscillator) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 14: Global: Crystal Oscillator (Oven-Controlled Crystal Oscillator) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 15: Global: Crystal Oscillator (Other Types) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 16: Global: Crystal Oscillator (Other Types) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 17: Global: Crystal Oscillator (AT Cut) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 18: Global: Crystal Oscillator (AT Cut) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 19: Global: Crystal Oscillator (BT Cut) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 20: Global: Crystal Oscillator (BT Cut) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 21: Global: Crystal Oscillator (SC Cut) Market: Sales Value (in Million US\$),

2016 & 2021

Figure 22: Global: Crystal Oscillator (SC Cut) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 23: Global: Crystal Oscillator (Other Crystal Cutting Types) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 24: Global: Crystal Oscillator (Other Crystal Cutting Types) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 25: Global: Crystal Oscillator (Surface Mount) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 26: Global: Crystal Oscillator (Surface Mount) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 27: Global: Crystal Oscillator (Thru-Hole) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 28: Global: Crystal Oscillator (Thru-Hole) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 29: Global: Crystal Oscillator (Electronics) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 30: Global: Crystal Oscillator (Electronics) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 31: Global: Crystal Oscillator (IT and Telecommunication) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 32: Global: Crystal Oscillator (IT and Telecommunication) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 33: Global: Crystal Oscillator (Military and Defense) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 34: Global: Crystal Oscillator (Military and Defense) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 35: Global: Crystal Oscillator (Automotive and Transport) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 36: Global: Crystal Oscillator (Automotive and Transport) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 37: Global: Crystal Oscillator (Other End Users) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 38: Global: Crystal Oscillator (Other End Users) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 39: North America: Crystal Oscillator Market: Sales Value (in Million US\$), 2016 & 2021

Figure 40: North America: Crystal Oscillator Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 41: United States: Crystal Oscillator Market: Sales Value (in Million US\$), 2016 & 2021

Figure 42: United States: Crystal Oscillator Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 43: Canada: Crystal Oscillator Market: Sales Value (in Million US\$), 2016 & 2021

Figure 44: Canada: Crystal Oscillator Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 45: Asia-Pacific: Crystal Oscillator Market: Sales Value (in Million US\$), 2016 & 2021

Figure 46: Asia-Pacific: Crystal Oscillator Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 47: China: Crystal Oscillator Market: Sales Value (in Million US\$), 2016 & 2021

Figure 48: China: Crystal Oscillator Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 49: Japan: Crystal Oscillator Market: Sales Value (in Million US\$), 2016 & 2021

Figure 50: Japan: Crystal Oscillator Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 51: India: Crystal Oscillator Market: Sales Value (in Million US\$), 2016 & 2021

Figure 52: India: Crystal Oscillator Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 53: South Korea: Crystal Oscillator Market: Sales Value (in Million US\$), 2016 & 2021

Figure 54: South Korea: Crystal Oscillator Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 55: Australia: Crystal Oscillator Market: Sales Value (in Million US\$), 2016 & 2021

Figure 56: Australia: Crystal Oscillator Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 57: Indonesia: Crystal Oscillator Market: Sales Value (in Million US\$), 2016 & 2021

Figure 58: Indonesia: Crystal Oscillator Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 59: Others: Crystal Oscillator Market: Sales Value (in Million US\$), 2016 & 2021

Figure 60: Others: Crystal Oscillator Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 61: Europe: Crystal Oscillator Market: Sales Value (in Million US\$), 2016 & 2021

Figure 62: Europe: Crystal Oscillator Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 63: Germany: Crystal Oscillator Market: Sales Value (in Million US\$), 2016 &

2021

Figure 64: Germany: Crystal Oscillator Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 65: France: Crystal Oscillator Market: Sales Value (in Million US\$), 2016 & 2021

Figure 66: France: Crystal Oscillator Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 67: United Kingdom: Crystal Oscillator Market: Sales Value (in Million US\$), 2016 & 2021

Figure 68: United Kingdom: Crystal Oscillator Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 69: Italy: Crystal Oscillator Market: Sales Value (in Million US\$), 2016 & 2021

Figure 70: Italy: Crystal Oscillator Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 71: Spain: Crystal Oscillator Market: Sales Value (in Million US\$), 2016 & 2021

Figure 72: Spain: Crystal Oscillator Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 73: Russia: Crystal Oscillator Market: Sales Value (in Million US\$), 2016 & 2021

Figure 74: Russia: Crystal Oscillator Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 75: Others: Crystal Oscillator Market: Sales Value (in Million US\$), 2016 & 2021

Figure 76: Others: Crystal Oscillator Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 77: Latin America: Crystal Oscillator Market: Sales Value (in Million US\$), 2016 & 2021

Figure 78: Latin America: Crystal Oscillator Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 79: Brazil: Crystal Oscillator Market: Sales Value (in Million US\$), 2016 & 2021

Figure 80: Brazil: Crystal Oscillator Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 81: Mexico: Crystal Oscillator Market: Sales Value (in Million US\$), 2016 & 2021

Figure 82: Mexico: Crystal Oscillator Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 83: Others: Crystal Oscillator Market: Sales Value (in Million US\$), 2016 & 2021

Figure 84: Others: Crystal Oscillator Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 85: Middle East and Africa: Crystal Oscillator Market: Sales Value (in Million US\$), 2016 & 2021

Figure 86: Middle East and Africa: Crystal Oscillator Market: Breakup by Country (in %), 2021

Figure 87: Middle East and Africa: Crystal Oscillator Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 88: Global: Crystal Oscillator Industry: SWOT Analysis

Figure 89: Global: Crystal Oscillator Industry: Value Chain Analysis

Figure 90: Global: Crystal Oscillator Industry: Porter's Five Forces Analysis

I would like to order

Product name: Crystal Oscillator Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

Product link: <https://marketpublishers.com/r/C14BBC0F7744EN.html>

Price: US\$ 2,499.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/C14BBC0F7744EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

