

# Global Quartz Crystal Piezoelectric Resonators Supply, Demand and Key Producers, 2023-2029

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## Abstracts

A quartz crystal piezoelectric resonator is an electronic oscillator circuit that uses a piezoelectric crystal as a frequency-selective element. The oscillator frequency is often used to keep track of time, as in quartz wristwatches, to provide a stable clock signal for digital integrated circuits, and to stabilize frequencies for radio transmitters and receivers. The most common type of piezoelectric resonator used is a quartz crystal, so oscillator circuits incorporating them became known as crystal oscillators. However, other piezoelectricity materials including polycrystalline ceramics are used in similar circuits. A quartz crystal piezoelectric resonator relies on the slight change in shape of a quartz crystal under an electric field, a property known as inverse piezoelectricity. A voltage applied to the electrodes on the crystal causes it to change shape; when the voltage is removed, the crystal generates a small voltage as it elastically returns to its original shape. The quartz oscillates at a stable resonant frequency, behaving like an RLC circuit, but with a much higher Q factor (less energy loss on each cycle of oscillation). Once a quartz crystal is adjusted to a particular frequency (which is affected by the mass of electrodes attached to the crystal, the orientation of the crystal, temperature and other factors), it maintains that frequency with high stability.

This report studies the global Quartz Crystal Piezoelectric Resonators production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Quartz Crystal Piezoelectric Resonators, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Quartz Crystal Piezoelectric Resonators that contribute to its increasing demand across many markets.

The global Quartz Crystal Piezoelectric Resonators market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

Highlights and key features of the study

Global Quartz Crystal Piezoelectric Resonators total production and demand, 2018-2029, (K Units)

Global Quartz Crystal Piezoelectric Resonators total production value, 2018-2029, (USD Million)

Global Quartz Crystal Piezoelectric Resonators production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Quartz Crystal Piezoelectric Resonators consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: Quartz Crystal Piezoelectric Resonators domestic production, consumption, key domestic manufacturers and share

Global Quartz Crystal Piezoelectric Resonators production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global Quartz Crystal Piezoelectric Resonators production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Quartz Crystal Piezoelectric Resonators production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units)

This reports profiles key players in the global Quartz Crystal Piezoelectric Resonators market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Miyazaki Epson, Nihon Dempa Kogyo (NDK), TXC, Daishinku Corp (KDS), Kyocera Crystal Device (KCD), Hosonic Electronic, Siward Crystal Technology, River Eletec and Micro Crystal, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Quartz Crystal Piezoelectric Resonators market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Quartz Crystal Piezoelectric Resonators Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Quartz Crystal Piezoelectric Resonators Market, Segmentation by Type

XO

VCXO

TCXO

OCXO

## Global Quartz Crystal Piezoelectric Resonators Market, Segmentation by Application

Aerospace

Automotive

Consumer Electronics

Medical Equipments

Others

## Companies Profiled:

Miyazaki Epson

Nihon Dempa Kogyo (NDK)

TXC

Daishinku Corp (KDS)

Kyocera Crystal Device (KCD)

Hosonic Electronic

Siward Crystal Technology

River Eletec

Micro Crystal

Failong Crystal Technologies

ZheJiang East Crystal

Guoxin Micro

Vectron International

Rakon

NSK (JenJaen Quartek Corporation)

ILSI America LLC

Diodes Incorporated

Fox Electronics

Pletronics

TKD Science and Technology

## Key Questions Answered

1. How big is the global Quartz Crystal Piezoelectric Resonators market?
2. What is the demand of the global Quartz Crystal Piezoelectric Resonators market?
3. What is the year over year growth of the global Quartz Crystal Piezoelectric Resonators market?
4. What is the production and production value of the global Quartz Crystal Piezoelectric Resonators market?
5. Who are the key producers in the global Quartz Crystal Piezoelectric Resonators market?
6. What are the growth factors driving the market demand?

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