

Global Quartz Crystal Piezoelectric Resonators Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 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.

According to our (Global Info Research) latest study, the global Quartz Crystal Piezoelectric Resonators market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

This report is a detailed and comprehensive analysis for global Quartz Crystal Piezoelectric Resonators market. Both quantitative and qualitative analyses are

presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2023, are provided.

Key Features:

Global Quartz Crystal Piezoelectric Resonators market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Quartz Crystal Piezoelectric Resonators market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Quartz Crystal Piezoelectric Resonators market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Quartz Crystal Piezoelectric Resonators market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2018-2023

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Quartz Crystal Piezoelectric Resonators

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report 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) and Kyocera Crystal Device (KCD), etc.

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

Market Segmentation

Quartz Crystal Piezoelectric Resonators market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

XO

VCXO

TCXO

OCXO

Market segment by Application

Aerospace

Automotive

Consumer Electronics

Medical Equipments

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Quartz Crystal Piezoelectric Resonators product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Quartz Crystal Piezoelectric Resonators, with price, sales, revenue and global market share of Quartz Crystal Piezoelectric Resonators from 2018 to 2023.

Chapter 3, the Quartz Crystal Piezoelectric Resonators competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Quartz Crystal Piezoelectric Resonators breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2022. and Quartz Crystal Piezoelectric Resonators market forecast, by regions, type

and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Quartz Crystal Piezoelectric Resonators.

Chapter 14 and 15, to describe Quartz Crystal Piezoelectric Resonators sales channel, distributors, customers, research findings and conclusion.

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