

Global Quartz-based Frequency Control Components Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Quartz-based Frequency Control Components market size was valued at US\$ 2812 million in 2024 and is forecast to a readjusted size of USD 5615 million by 2031 with a CAGR of 10.4% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Quartz-based frequency control components leverage the piezoelectric effect and high Q-factor of quartz crystals to generate and stabilize oscillation frequencies, critical for precise frequency synchronization in communication and clock circuits. Their technical features include high frequency stability (ppm/ppb level), low phase noise, compact packaging, and robustness against environmental factors like temperature and voltage, achieved through precise crystal cutting and compensation circuits covering kHz to GHz ranges. Future trends focus on miniaturization, integration, and new materials like MEMS for 5G/6G and low-power IoT applications. Intelligent, adaptive algorithms will further enhance performance and environmental adaptability.

This report is a detailed and comprehensive analysis for global Quartz-based Frequency Control Components 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 2025, are provided.

Key Features:

Global Quartz-based Frequency Control Components market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (K Units), 2020-2031

Global Quartz-based Frequency Control Components market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (K Units), 2020-2031

Global Quartz-based Frequency Control Components market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (K Units), 2020-2031

Global Quartz-based Frequency Control Components market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (K Units), 2020-2025

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-based Frequency Control Components
- 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-based Frequency Control Components market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NIHON DEMPA KOGYO (NDK), Epson Toyocom, KDS Daishinku, Kyocera Kinseki, Vectron (Microchip), Rakon, Crystek, ECS, Abracon, Pletronics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Quartz-based Frequency Control Components market is split by Type and by

Application. For the period 2020-2031, 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

SAW Oscillators

Bulk Wave Oscillator

Market segment by Application

Automotive Electronic

Consumer Electronic

IT Communication

Medical Equipment

Others

Major players covered

NIHON DEMPA KOGYO (NDK)

Epson Toyocom

KDS Daishinku

Kyocera Kinseki

Vectron (Microchip)

Rakon

Crystek

ECS

Abracon

Pletronics

Bliley Technologies

Greenray Industries

Skyworks Solutions

Harmony Electronics

TXC

Siward

Aker Technology

NSK

TAITIEN ELECTRONICS

TAI-SAW TECHNOLOGY

TKD Science and Technology

Zhejiang HOSONIC Technology

Zhejiang East Crystal Electronic

Unigroup Guoxin Microelectronics

Anhui Jing Sai Technology

Guangdong Faith Long Crystal Technology

Zhejiang A-Crystal 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-based Frequency Control Components product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Quartz-based Frequency Control Components, with price, sales quantity, revenue, and global market share of Quartz-based Frequency Control Components from 2020 to 2025.

Chapter 3, the Quartz-based Frequency Control Components competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Quartz-based Frequency Control Components breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and Quartz-based Frequency Control Components market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Quartz-based Frequency Control Components.

Chapter 14 and 15, to describe Quartz-based Frequency Control Components sales channel, distributors, customers, research findings and conclusion.

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