

Clock Oscillators Market - Global Outlook and Forecast 2022-2028

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Abstracts

A crystal oscillator is an electronic oscillator circuit that uses the mechanical resonance of a vibrating crystal of piezoelectric material to create an electrical signal with a precise frequency. This 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 the quartz crystal, so oscillator circuits incorporating them became known as crystal oscillators, but other piezoelectric materials including polycrystalline ceramics are used in similar circuits.

A crystal oscillator, particularly one using a quartz crystal, works by distorting the crystal with an electric field, when voltage is applied to an electrode near or on the crystal; a property known as electrostriction or inverse piezoelectricity. When the electric field is removed, the quartz—which oscillates at a precise frequency—generates an electric field as it returns to its previous shape, and this can generate a voltage. The result is that a quartz crystal behaves like an RLC circuit, but with a much higher Q.

Quartz crystals are manufactured for frequencies from a few tens of kilohertz to hundreds of megahertz. More than two billion crystals are manufactured annually. Most are used for consumer devices such as wristwatches, clocks, radios, computers, and cellphones. Quartz crystals are also found inside test and measurement equipment, such as counters, signal generators, and oscilloscopes.

This report contains market size and forecasts of Clock Oscillators in global, including the following market information:

Global Clock Oscillators Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Clock Oscillators Market Sales, 2017-2022, 2023-2028, (K Units)

Global top five Clock Oscillators companies in 2021 (%)

The global Clock Oscillators market was valued at million in 2021 and is projected to reach US\$ million by 2028, at a CAGR of % during the forecast period.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

0 to 3 V Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Clock Oscillators include Abracon LLC, Connor-Winfield, Crystek Corporation, Ecliptek, Greenray Industries, IQD Frequency Products, Precision Devices Inc, Silicon Labs and Vectron International. etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Clock Oscillators manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Clock Oscillators Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Clock Oscillators Market Segment Percentages, by Type, 2021 (%)

0 to 3 V

3 to 5 V

Greater than 5

Global Clock Oscillators Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Clock Oscillators Market Segment Percentages, by Application, 2021 (%)

Commercial

Military

Others

Global Clock Oscillators Market, By Region and Country, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Clock Oscillators Market Segment Percentages, By Region and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Clock Oscillators revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies Clock Oscillators revenues share in global market, 2021 (%)

Key companies Clock Oscillators sales in global market, 2017-2022 (Estimated), (K Units)

Key companies Clock Oscillators sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

Abracon LLC

Connor-Winfield

Crystek Corporation

Ecliptek

Greenray Industries

IQD Frequency Products

Precision Devices Inc

Silicon Labs

Vectron International

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