

Piezoelectric Crystal Market - Global Outlook and Forecast 2022-2028

<https://marketpublishers.com/r/PB61FAB3A71CEN.html>

Date: January 2022

Pages: 117

Price: US\$ 3,250.00 (Single User License)

ID: PB61FAB3A71CEN

Abstracts

Piezoelectric crystals are one of many small scale energy sources. Whenever piezoelectric crystals are mechanically deformed or subject to vibration they generate a small voltage, commonly known as piezoelectricity. This form of renewable energy is not ideally suited to an industrial situation.

The ability of certain crystals to generate Piezoelectricity in response to applied mechanical stress is reversible in that piezoelectric crystals, when subjected to an externally applied voltage, can change shape by a small amount. This deformation, though only nanometers, has useful applications such as the production and detection of sound.

Probably the best-known use of piezoelectric crystals is in the electric cigarette lighter. Here, pressing the button causes a spring-loaded hammer to hit a piezoelectric crystal, the high voltage produced by this ignites the gas as the current jumps over a small spark gap. This technique also applies to some gas lighters used on gas grills or stoves.

Another common usage of a piezoelectric crystal energy source is that of creating a small motor; such as that used in a reflex camera to operate the auto focus system. These motors operate by vibration. The two surfaces are forced to vibrate at a phase shift of 90 degrees by a sine wave that has been generated at the motors resonant frequency. This forces a frictional force where the two surfaces meet and as one of the surfaces is fixed the other is forced to move.

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

Global Piezoelectric Crystal Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Piezoelectric Crystal Market Sales, 2017-2022, 2023-2028, (K Units)

Global top five Piezoelectric Crystal companies in 2021 (%)

The global Piezoelectric Crystal 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.

Crystal (Alpha-Quartz) Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Piezoelectric Crystal include Harri, MURATA, Johnson Matthey, Arkema, Meggitt Sensing, KYOCERA, Piezo Kinetics, Morgan Advanced Materials and CeramTec, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Piezoelectric Crystal 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 Piezoelectric Crystal Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Piezoelectric Crystal Market Segment Percentages, by Type, 2021 (%)

Crystal (Alpha-Quartz)

Sphalerite

Boron Borate

Other

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

Global Piezoelectric Crystal Market Segment Percentages, by Application, 2021 (%)

TCXO(Temperature Compensate X'tal (crystal) Oscillator)

Voltage Controlled X'tal(crystal) Oscillator

Oven Controlled Crystal Oscillator

Other

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

Global Piezoelectric Crystal 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 Piezoelectric Crystal revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies Piezoelectric Crystal revenues share in global market, 2021 (%)

Key companies Piezoelectric Crystal sales in global market, 2017-2022 (Estimated), (K Units)

Key companies Piezoelectric Crystal sales share in global market, 2021 (%)

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

Harri

MURATA

Johnson Matthey

Arkema

Meggitt Sensing

KYOCERA

Piezo Kinetics

Morgan Advanced Materials

CeramTec

Solvay

Physik Instrumente (PI)

Sparkler Ceramics

Konghong Corporation

TRS

APC International

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Figure 50. Piezoelectric Crystal Industry Value Chain

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