

Global Piezoelectric Crystal Market Growth 2025-2031

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Abstracts

The global Piezoelectric Crystal market size is predicted to grow from US\$ million in 2025 to US\$ million in 2031; it is expected to grow at a CAGR of %from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

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 know 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.

United States market for Piezoelectric Crystal is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Piezoelectric Crystal is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Piezoelectric Crystal is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Piezoelectric Crystal players cover Harri, MURATA, Johnson Matthey, Arkema, Meggitt Sensing, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the "Piezoelectric Crystal Industry Forecast" looks at past sales and reviews total world Piezoelectric Crystal sales in 2024, providing a comprehensive analysis by region and market sector of projected Piezoelectric Crystal sales for 2025 through 2031. With Piezoelectric Crystal sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Piezoelectric Crystal industry.

This Insight Report provides a comprehensive analysis of the global Piezoelectric Crystal landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Piezoelectric Crystal portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Piezoelectric Crystal market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Piezoelectric Crystal and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Piezoelectric Crystal.

This report presents a comprehensive overview, market shares, and growth opportunities of Piezoelectric Crystal market by product type, application, key

manufacturers and key regions and countries.

Segmentation by Type:

Crystal (Alpha-Quartz)

Sphalerite

Boron Borate

Other

Segmentation by Application:

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

Voltage Controlled X'tal(crystal) Oscillator

Oven Controlled Crystal Oscillator

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global Piezoelectric Crystal market?

What factors are driving Piezoelectric Crystal market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Piezoelectric Crystal market opportunities vary by end market size?

How does Piezoelectric Crystal break out by Type, by Application?

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