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Global Thru-Hole Crystal Clock Oscillator Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Thru-Hole Crystal Clock Oscillator market size is expected to reach $ 1290 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

In 2025, global sales of Thru-hole crystal clock oscillators were approximately 680-720 million units, with an average selling price of approximately USD 1.1-1.3 per unit and a gross profit margin of approximately 22%-30%. A Thru-hole crystal clock oscillator is essentially a complete clock source module that encapsulates a quartz crystal resonator, a dedicated oscillation IC, power supply regulation, and buffer drive circuitry within a DIP/HC-49 or other through-hole package. It outputs a fixed-frequency or selectable-frequency TTL/CMOS square wave signal via a 5V/3.3V DC power supply, providing a reference clock for MCUs, PLCs, communication boards, industrial controllers, measuring instruments, and more. Typical frequency range: 32.768 kHz–125 MHz (mainstream concentrated in 1–50 MHz), frequency accuracy: ±20–100 ppm, long-term stability: ±3–10 ppm/year, operating temperature: ?20~+70 ? or ?40~+85 ? (industrial grade), rise time: 5–10 ns, square wave duty cycle: 45–55%, supply current: 10–40 mA, package types: DIP-8/DIP-14, HC-49/U through-hole packages, etc. Typically, 1–3 units are configured on a PLC or industrial control board, 1–2 units on power and communication boards, and 1 unit is sufficient on an instrument or measurement and control module. In the overall oscillator market, through-hole products account for approximately 20% by installation method, with the remainder being surface-mount. The upstream mainly includes quartz crystal blanks (AT-cut / tuning fork), ceramic or metal packaging shells, oscillator/buffer ICs, metal lead frames, solder and packaging materials, etc.; the downstream targets industrial control and power electronic equipment manufacturers, rail transit and railway signaling systems, aerospace/military electronics, traditional communication and measurement instrument

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manufacturers, etc.

This report studies the global Thru-Hole Crystal Clock Oscillator production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thru-Hole Crystal Clock Oscillator and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Thru-Hole Crystal Clock Oscillator that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Thru-Hole Crystal Clock Oscillator total production and demand, 2021-2032, (K Units)

Global Thru-Hole Crystal Clock Oscillator total production value, 2021-2032, (USD Million)

Global Thru-Hole Crystal Clock Oscillator production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Thru-Hole Crystal Clock Oscillator consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Thru-Hole Crystal Clock Oscillator domestic production, consumption, key domestic manufacturers and share

Global Thru-Hole Crystal Clock Oscillator production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Thru-Hole Crystal Clock Oscillator production by Pulling Range, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Thru-Hole Crystal Clock Oscillator production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Thru-Hole Crystal Clock Oscillator market based on the following parameters - company overview, production, value, price, gross

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margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ECS, Abracon, TXC Corporation, NDK, Fox Electronics, Epson, Raltron, Microchip Technology, Kyocera, IQD Frequency Products, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Thru-Hole Crystal Clock Oscillator market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Pulling Range, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Thru-Hole Crystal Clock Oscillator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thru-Hole Crystal Clock Oscillator Market, Segmentation by Pulling Range:

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±50 ppm

±100 ppm

±200 ppm

Others

Global Thru-Hole Crystal Clock Oscillator Market, Segmentation by Voltage:

3.3V

5V

Others

Global Thru-Hole Crystal Clock Oscillator Market, Segmentation by Maximum Frequency:

100 MHz

125 MHz

150 MHz

Global Thru-Hole Crystal Clock Oscillator Market, Segmentation by Application:

Military Electronics

Rail Transportation

Aerospace

Others

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Companies Profiled:

- ECS
- Abracon
- TXC Corporation
- NDK
- Fox Electronics
- Epson
- Raltron
- Microchip Technology
- Kyocera
- IQD Frequency Products
- QuartzCom
- SiTime
- AXTAL
- Rakon
- MURATA
- Siward
- ACT
- Parallax

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Key Questions Answered:

1. How big is the global Thru-Hole Crystal Clock Oscillator market?
2. What is the demand of the global Thru-Hole Crystal Clock Oscillator market?
3. What is the year over year growth of the global Thru-Hole Crystal Clock Oscillator market?
4. What is the production and production value of the global Thru-Hole Crystal Clock Oscillator market?
5. Who are the key producers in the global Thru-Hole Crystal Clock Oscillator market?
6. What are the growth factors driving the market demand?

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