

Global Thru-Hole Package Crystal Oscillator Market Growth 2026-2032

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Abstracts

The global Thru-Hole Package Crystal Oscillator market size is predicted to grow from US\$ 819 million in 2025 to US\$ 1264 million in 2032; it is expected to grow at a CAGR of 6.4% from 2026 to 2032.

In 2025, global sales of Thru-hole Package Crystal 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 package crystal 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°C ~ $+70^{\circ}\text{C}$ or 40°C ~ $+85^{\circ}\text{C}$ (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

manufacturers, etc.

United States market for Thru-Hole Package Crystal Oscillator is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Thru-Hole Package Crystal Oscillator is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Thru-Hole Package Crystal Oscillator is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Thru-Hole Package Crystal Oscillator players cover ECS, Abracon, TXC Corporation, NDK, Fox Electronics, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Thru-Hole Package Crystal Oscillator Industry Forecast" looks at past sales and reviews total world Thru-Hole Package Crystal Oscillator sales in 2025, providing a comprehensive analysis by region and market sector of projected Thru-Hole Package Crystal Oscillator sales for 2026 through 2032. With Thru-Hole Package Crystal Oscillator sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Thru-Hole Package Crystal Oscillator industry.

This Insight Report provides a comprehensive analysis of the global Thru-Hole Package Crystal Oscillator 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 Thru-Hole Package Crystal Oscillator portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Thru-Hole Package Crystal Oscillator market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Thru-Hole Package Crystal Oscillator and breaks down the forecast by Pulling Range, 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 Thru-Hole Package Crystal Oscillator.

This report presents a comprehensive overview, market shares, and growth opportunities of Thru-Hole Package Crystal Oscillator market by product type, application, key manufacturers and key regions and countries.

Segmentation by Pulling Range:

±50 ppm

±100 ppm

±200 ppm

Others

Segmentation by Voltage:

3.3V

5V

Others

Segmentation by Maximum Frequency:

100 MHz

125 MHz

150 MHz

Segmentation by Application:

Military Electronics

Rail Transportation

Aerospace

Others

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.

ECS

Abracon

TXC Corporation

NDK

Fox Electronics

Epson

Raltron

Microchip Technology

Kyocera

IQD Frequency Products

QuartzCom

SiTime

AXTAL

Rakon

MURATA

Siward

ACT

Parallax

Key Questions Addressed in this Report

What is the 10-year outlook for the global Thru-Hole Package Crystal Oscillator market?

What factors are driving Thru-Hole Package Crystal Oscillator market growth, globally and by region?

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

How do Thru-Hole Package Crystal Oscillator market opportunities vary by end market size?

How does Thru-Hole Package Crystal Oscillator break out by Pulling Range, by Application?

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