

Global Thermistor Crystal Oscillator Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Thermistor Crystal Oscillator market size is expected to reach \$ 326 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

In 2025, global Thermistor Crystal Oscillator production reached approximately 11581 k units, the average price is 18 usd/unit. Thermistor Crystal Oscillator is a crystal oscillator that uses a thermal crystal to achieve frequency stability. In crystal oscillators, crystals are often used as frequency stabilizing elements. The thermal crystal combines the characteristics of the crystal and the thermal characteristics, which can better resist the influence of temperature changes on the oscillator frequency.

Market Concentration and Major Players:

Internationally, the thermistor market is highly concentrated, primarily in developed countries such as Europe, the US, and Japan. Large manufacturers include ECS Inc. and KYOCERA. Domestically, the thermistor market still has significant room for growth.

Manufacturing Process and Market Trends:

Thermistor resonators are first formed by grinding and polishing AT-cut or SC-cut quartz wafers and sputtering metal electrodes to create the resonant unit. Then, NTC thermistor paste is printed in multiple layers and co-fired to create a miniature thermistor element. Both are then integrated onto a cavity-type ceramic or silicon substrate and sealed in a top cover using conductive adhesive or gold-tin solder.

On the market side, with the increasing demand for low-cost temperature compensation

solutions from 5G communications, smartphones, wearable devices, and automotive electronics, products are continuously evolving towards ultra-small sizes (1612 and even 1210), high-frequency photolithography wafers, and automotive-grade high reliability, gradually penetrating the automotive UWB and satellite navigation fields.

This report studies the global Thermistor Crystal Oscillator production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thermistor Crystal 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 Thermistor Crystal Oscillator that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Thermistor Crystal Oscillator total production and demand, 2021-2032, (K Units)

Global Thermistor Crystal Oscillator total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: Thermistor Crystal Oscillator domestic production, consumption, key domestic manufacturers and share

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

Global Thermistor Crystal Oscillator production by Thermistor, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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

This report profiles key players in the global Thermistor Crystal Oscillator market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Epson (Japan), TXC Corporation (Taiwan), ECS Inc. (USA), Kyocera (Japan), NDK (Japan), Harmony (Taiwan), KDS (Japan), Siward (Taiwan), Taitien (Taiwan), Rakon (New Zealand), 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 Thermistor Crystal 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 Thermistor, 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 Thermistor Crystal Oscillator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thermistor Crystal Oscillator Market, Segmentation by Thermistor:

NTC Thermistor

PTC Thermistor

Global Thermistor Crystal Oscillator Market, Segmentation by Structure:

Pierce Oscillator

Colpitts Oscillator

Clapp Oscillator

Global Thermistor Crystal Oscillator Market, Segmentation by Voltage:

1.8 V

3.3 V

5 V

Others

Global Thermistor Crystal Oscillator Market, Segmentation by Application:

5G

Smartphone

Tablet Computer

Smart Home

Automotive Electronics

Other

Companies Profiled:

Epson (Japan)

TXC Corporation (Taiwan)

ECS Inc. (USA)

Kyocera (Japan)

NDK (Japan)

Harmony (Taiwan)

KDS (Japan)

Siward (Taiwan)

Taitien (Taiwan)

Rakon (New Zealand)

Microchip Technology (USA)

Abracon (USA)

SiTime (USA)

W?rth Elektronik eiSos Group (Germany)

Connor-Winfield (USA)

Crystek (USA)

Hosonic Electronic(China)

Shenzhen Genuway Technology(China)

Guangdong Faith Long Crystal Technology(China)

TROQ(China)

SHENZHEN YANGXING TECHNOLOGY(China)

Anhui Jingsai Technology(China)

TKD Science(China)

Key Questions Answered:

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

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