

Global Thru-Hole Oscillator Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GC20F5A08300EN.html>

Date: December 2025

Pages: 131

Price: US\$ 3,480.00 (Single User License)

ID: GC20F5A08300EN

Abstracts

According to our (Global Info Research) latest study, the global Thru-Hole Oscillator market size was valued at US\$ 854 million in 2025 and is forecast to a readjusted size of US\$ 1290 million by 2032 with a CAGR of 6.1% during review period.

In 2025, global sales of Thru-hole 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 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 to ± 100 ppm, long-term stability: ± 3 to ± 10 ppm/year, operating temperature: -20 to $+70$ °C or -40 to $+85$ °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.

This report is a detailed and comprehensive analysis for global Thru-Hole Oscillator market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Pulling Range and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Thru-Hole Oscillator market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Thru-Hole Oscillator market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Thru-Hole Oscillator market size and forecasts, by Pulling Range and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Thru-Hole Oscillator market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Thru-Hole Oscillator

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Thru-Hole Oscillator market based on the

following parameters - company overview, sales quantity, revenue, price, gross 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.

Market Segmentation

Thru-Hole Oscillator market is split by Pulling Range and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Pulling Range, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Pulling Range

?50 ppm

?100 ppm

?200 ppm

Others

Market segment by Voltage

3.3V

5V

Others

Market segment by Maximum Frequency

100 MHz

125 MHz

150 MHz

Market segment by Application

Military Electronics

Rail Transportation

Aerospace

Others

Major players covered

ECS

Abracon

TXC Corporation

NDK

Fox Electronics

Epson

Raltron

Microchip Technology

Kyocera

IQD Frequency Products

QuartzCom

SiTime

AXTAL

Rakon

MURATA

Siward

ACT

Parallax

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Thru-Hole Oscillator product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thru-Hole Oscillator, with price, sales quantity, revenue, and global market share of Thru-Hole Oscillator from 2021 to 2026.

Chapter 3, the Thru-Hole Oscillator competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Thru-Hole Oscillator breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Pulling Range and by Application, with sales market share and growth rate by Pulling Range, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Thru-Hole Oscillator market forecast, by regions, by Pulling Range, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Thru-Hole Oscillator.

Chapter 14 and 15, to describe Thru-Hole Oscillator sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Pulling Range

1.3.1 Overview: Global Thru-Hole Oscillator Consumption Value by Pulling Range:
2021 Versus 2025 Versus 2032

1.3.2 ?50 ppm

1.3.3 ?100 ppm

1.3.4 ?200 ppm

1.3.5 Others

1.4 Market Analysis by Voltage

1.4.1 Overview: Global Thru-Hole Oscillator Consumption Value by Voltage: 2021
Versus 2025 Versus 2032

1.4.2 3.3V

1.4.3 5V

1.4.4 Others

1.5 Market Analysis by Maximum Frequency

1.5.1 Overview: Global Thru-Hole Oscillator Consumption Value by Maximum
Frequency: 2021 Versus 2025 Versus 2032

1.5.2 100 MHz

1.5.3 125 MHz

1.5.4 150 MHz

1.6 Market Analysis by Application

1.6.1 Overview: Global Thru-Hole Oscillator Consumption Value by Application: 2021
Versus 2025 Versus 2032

1.6.2 Military Electronics

1.6.3 Rail Transportation

1.6.4 Aerospace

1.6.5 Others

1.7 Global Thru-Hole Oscillator Market Size & Forecast

1.7.1 Global Thru-Hole Oscillator Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Thru-Hole Oscillator Sales Quantity (2021-2032)

1.7.3 Global Thru-Hole Oscillator Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 ECS

2.1.1 ECS Details

2.1.2 ECS Major Business

2.1.3 ECS Thru-Hole Oscillator Product and Services

2.1.4 ECS Thru-Hole Oscillator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 ECS Recent Developments/Updates

2.2 Abracon

2.2.1 Abracon Details

2.2.2 Abracon Major Business

2.2.3 Abracon Thru-Hole Oscillator Product and Services

2.2.4 Abracon Thru-Hole Oscillator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Abracon Recent Developments/Updates

2.3 TXC Corporation

2.3.1 TXC Corporation Details

2.3.2 TXC Corporation Major Business

2.3.3 TXC Corporation Thru-Hole Oscillator Product and Services

2.3.4 TXC Corporation Thru-Hole Oscillator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 TXC Corporation Recent Developments/Updates

2.4 NDK

2.4.1 NDK Details

2.4.2 NDK Major Business

2.4.3 NDK Thru-Hole Oscillator Product and Services

2.4.4 NDK Thru-Hole Oscillator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 NDK Recent Developments/Updates

2.5 Fox Electronics

2.5.1 Fox Electronics Details

2.5.2 Fox Electronics Major Business

2.5.3 Fox Electronics Thru-Hole Oscillator Product and Services

2.5.4 Fox Electronics Thru-Hole Oscillator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Fox Electronics Recent Developments/Updates

2.6 Epson

2.6.1 Epson Details

2.6.2 Epson Major Business

2.6.3 Epson Thru-Hole Oscillator Product and Services

2.6.4 Epson Thru-Hole Oscillator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Epson Recent Developments/Updates

2.7 Raltron

2.7.1 Raltron Details

2.7.2 Raltron Major Business

2.7.3 Raltron Thru-Hole Oscillator Product and Services

2.7.4 Raltron Thru-Hole Oscillator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Raltron Recent Developments/Updates

2.8 Microchip Technology

2.8.1 Microchip Technology Details

2.8.2 Microchip Technology Major Business

2.8.3 Microchip Technology Thru-Hole Oscillator Product and Services

2.8.4 Microchip Technology Thru-Hole Oscillator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Microchip Technology Recent Developments/Updates

2.9 Kyocera

2.9.1 Kyocera Details

2.9.2 Kyocera Major Business

2.9.3 Kyocera Thru-Hole Oscillator Product and Services

2.9.4 Kyocera Thru-Hole Oscillator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Kyocera Recent Developments/Updates

2.10 IQD Frequency Products

2.10.1 IQD Frequency Products Details

2.10.2 IQD Frequency Products Major Business

2.10.3 IQD Frequency Products Thru-Hole Oscillator Product and Services

2.10.4 IQD Frequency Products Thru-Hole Oscillator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 IQD Frequency Products Recent Developments/Updates

2.11 QuartzCom

2.11.1 QuartzCom Details

2.11.2 QuartzCom Major Business

2.11.3 QuartzCom Thru-Hole Oscillator Product and Services

2.11.4 QuartzCom Thru-Hole Oscillator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 QuartzCom Recent Developments/Updates

2.12 SiTime

- 2.12.1 SiTime Details
- 2.12.2 SiTime Major Business
- 2.12.3 SiTime Thru-Hole Oscillator Product and Services
- 2.12.4 SiTime Thru-Hole Oscillator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.12.5 SiTime Recent Developments/Updates
- 2.13 AXTAL
 - 2.13.1 AXTAL Details
 - 2.13.2 AXTAL Major Business
 - 2.13.3 AXTAL Thru-Hole Oscillator Product and Services
 - 2.13.4 AXTAL Thru-Hole Oscillator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.13.5 AXTAL Recent Developments/Updates
- 2.14 Rakon
 - 2.14.1 Rakon Details
 - 2.14.2 Rakon Major Business
 - 2.14.3 Rakon Thru-Hole Oscillator Product and Services
 - 2.14.4 Rakon Thru-Hole Oscillator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.14.5 Rakon Recent Developments/Updates
- 2.15 MURATA
 - 2.15.1 MURATA Details
 - 2.15.2 MURATA Major Business
 - 2.15.3 MURATA Thru-Hole Oscillator Product and Services
 - 2.15.4 MURATA Thru-Hole Oscillator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.15.5 MURATA Recent Developments/Updates
- 2.16 Siward
 - 2.16.1 Siward Details
 - 2.16.2 Siward Major Business
 - 2.16.3 Siward Thru-Hole Oscillator Product and Services
 - 2.16.4 Siward Thru-Hole Oscillator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.16.5 Siward Recent Developments/Updates
- 2.17 ACT
 - 2.17.1 ACT Details
 - 2.17.2 ACT Major Business
 - 2.17.3 ACT Thru-Hole Oscillator Product and Services
 - 2.17.4 ACT Thru-Hole Oscillator Sales Quantity, Average Price, Revenue, Gross

Margin and Market Share (2021-2026)

2.17.5 ACT Recent Developments/Updates

2.18 Parallax

2.18.1 Parallax Details

2.18.2 Parallax Major Business

2.18.3 Parallax Thru-Hole Oscillator Product and Services

2.18.4 Parallax Thru-Hole Oscillator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.18.5 Parallax Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: THRU-HOLE OSCILLATOR BY MANUFACTURER

3.1 Global Thru-Hole Oscillator Sales Quantity by Manufacturer (2021-2026)

3.2 Global Thru-Hole Oscillator Revenue by Manufacturer (2021-2026)

3.3 Global Thru-Hole Oscillator Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Thru-Hole Oscillator by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Thru-Hole Oscillator Manufacturer Market Share in 2025

3.4.3 Top 6 Thru-Hole Oscillator Manufacturer Market Share in 2025

3.5 Thru-Hole Oscillator Market: Overall Company Footprint Analysis

3.5.1 Thru-Hole Oscillator Market: Region Footprint

3.5.2 Thru-Hole Oscillator Market: Company Product Type Footprint

3.5.3 Thru-Hole Oscillator Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Thru-Hole Oscillator Market Size by Region

4.1.1 Global Thru-Hole Oscillator Sales Quantity by Region (2021-2032)

4.1.2 Global Thru-Hole Oscillator Consumption Value by Region (2021-2032)

4.1.3 Global Thru-Hole Oscillator Average Price by Region (2021-2032)

4.2 North America Thru-Hole Oscillator Consumption Value (2021-2032)

4.3 Europe Thru-Hole Oscillator Consumption Value (2021-2032)

4.4 Asia-Pacific Thru-Hole Oscillator Consumption Value (2021-2032)

4.5 South America Thru-Hole Oscillator Consumption Value (2021-2032)

4.6 Middle East & Africa Thru-Hole Oscillator Consumption Value (2021-2032)

5 MARKET SEGMENT BY PULLING RANGE

- 5.1 Global Thru-Hole Oscillator Sales Quantity by Pulling Range (2021-2032)
- 5.2 Global Thru-Hole Oscillator Consumption Value by Pulling Range (2021-2032)
- 5.3 Global Thru-Hole Oscillator Average Price by Pulling Range (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Thru-Hole Oscillator Sales Quantity by Application (2021-2032)
- 6.2 Global Thru-Hole Oscillator Consumption Value by Application (2021-2032)
- 6.3 Global Thru-Hole Oscillator Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Thru-Hole Oscillator Sales Quantity by Pulling Range (2021-2032)
- 7.2 North America Thru-Hole Oscillator Sales Quantity by Application (2021-2032)
- 7.3 North America Thru-Hole Oscillator Market Size by Country
 - 7.3.1 North America Thru-Hole Oscillator Sales Quantity by Country (2021-2032)
 - 7.3.2 North America Thru-Hole Oscillator Consumption Value by Country (2021-2032)
 - 7.3.3 United States Market Size and Forecast (2021-2032)
 - 7.3.4 Canada Market Size and Forecast (2021-2032)
 - 7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe Thru-Hole Oscillator Sales Quantity by Pulling Range (2021-2032)
- 8.2 Europe Thru-Hole Oscillator Sales Quantity by Application (2021-2032)
- 8.3 Europe Thru-Hole Oscillator Market Size by Country
 - 8.3.1 Europe Thru-Hole Oscillator Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe Thru-Hole Oscillator Consumption Value by Country (2021-2032)
 - 8.3.3 Germany Market Size and Forecast (2021-2032)
 - 8.3.4 France Market Size and Forecast (2021-2032)
 - 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
 - 8.3.6 Russia Market Size and Forecast (2021-2032)
 - 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Thru-Hole Oscillator Sales Quantity by Pulling Range (2021-2032)
- 9.2 Asia-Pacific Thru-Hole Oscillator Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Thru-Hole Oscillator Market Size by Region
 - 9.3.1 Asia-Pacific Thru-Hole Oscillator Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific Thru-Hole Oscillator Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)
 - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
 - 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Thru-Hole Oscillator Sales Quantity by Pulling Range (2021-2032)
- 10.2 South America Thru-Hole Oscillator Sales Quantity by Application (2021-2032)
- 10.3 South America Thru-Hole Oscillator Market Size by Country
 - 10.3.1 South America Thru-Hole Oscillator Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Thru-Hole Oscillator Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Thru-Hole Oscillator Sales Quantity by Pulling Range (2021-2032)
- 11.2 Middle East & Africa Thru-Hole Oscillator Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Thru-Hole Oscillator Market Size by Country
 - 11.3.1 Middle East & Africa Thru-Hole Oscillator Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa Thru-Hole Oscillator Consumption Value by Country (2021-2032)
 - 11.3.3 Turkey Market Size and Forecast (2021-2032)
 - 11.3.4 Egypt Market Size and Forecast (2021-2032)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
 - 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Thru-Hole Oscillator Market Drivers
- 12.2 Thru-Hole Oscillator Market Restraints
- 12.3 Thru-Hole Oscillator Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Thru-Hole Oscillator and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Thru-Hole Oscillator
- 13.3 Thru-Hole Oscillator Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Thru-Hole Oscillator Typical Distributors
- 14.3 Thru-Hole Oscillator Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global Thru-Hole Oscillator Consumption Value by Pulling Range, (USD Million), 2021 & 2025 & 2032
- Table 2. Global Thru-Hole Oscillator Consumption Value by Voltage, (USD Million), 2021 & 2025 & 2032
- Table 3. Global Thru-Hole Oscillator Consumption Value by Maximum Frequency, (USD Million), 2021 & 2025 & 2032
- Table 4. Global Thru-Hole Oscillator Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 5. ECS Basic Information, Manufacturing Base and Competitors
- Table 6. ECS Major Business
- Table 7. ECS Thru-Hole Oscillator Product and Services
- Table 8. ECS Thru-Hole Oscillator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 9. ECS Recent Developments/Updates
- Table 10. Abracon Basic Information, Manufacturing Base and Competitors
- Table 11. Abracon Major Business
- Table 12. Abracon Thru-Hole Oscillator Product and Services
- Table 13. Abracon Thru-Hole Oscillator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 14. Abracon Recent Developments/Updates
- Table 15. TXC Corporation Basic Information, Manufacturing Base and Competitors
- Table 16. TXC Corporation Major Business
- Table 17. TXC Corporation Thru-Hole Oscillator Product and Services
- Table 18. TXC Corporation Thru-Hole Oscillator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 19. TXC Corporation Recent Developments/Updates
- Table 20. NDK Basic Information, Manufacturing Base and Competitors
- Table 21. NDK Major Business
- Table 22. NDK Thru-Hole Oscillator Product and Services
- Table 23. NDK Thru-Hole Oscillator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 24. NDK Recent Developments/Updates
- Table 25. Fox Electronics Basic Information, Manufacturing Base and Competitors
- Table 26. Fox Electronics Major Business
- Table 27. Fox Electronics Thru-Hole Oscillator Product and Services

- Table 28. Fox Electronics Thru-Hole Oscillator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 29. Fox Electronics Recent Developments/Updates
- Table 30. Epson Basic Information, Manufacturing Base and Competitors
- Table 31. Epson Major Business
- Table 32. Epson Thru-Hole Oscillator Product and Services
- Table 33. Epson Thru-Hole Oscillator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 34. Epson Recent Developments/Updates
- Table 35. Raltron Basic Information, Manufacturing Base and Competitors
- Table 36. Raltron Major Business
- Table 37. Raltron Thru-Hole Oscillator Product and Services
- Table 38. Raltron Thru-Hole Oscillator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 39. Raltron Recent Developments/Updates
- Table 40. Microchip Technology Basic Information, Manufacturing Base and Competitors
- Table 41. Microchip Technology Major Business
- Table 42. Microchip Technology Thru-Hole Oscillator Product and Services
- Table 43. Microchip Technology Thru-Hole Oscillator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 44. Microchip Technology Recent Developments/Updates
- Table 45. Kyocera Basic Information, Manufacturing Base and Competitors
- Table 46. Kyocera Major Business
- Table 47. Kyocera Thru-Hole Oscillator Product and Services
- Table 48. Kyocera Thru-Hole Oscillator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 49. Kyocera Recent Developments/Updates
- Table 50. IQD Frequency Products Basic Information, Manufacturing Base and Competitors
- Table 51. IQD Frequency Products Major Business
- Table 52. IQD Frequency Products Thru-Hole Oscillator Product and Services
- Table 53. IQD Frequency Products Thru-Hole Oscillator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 54. IQD Frequency Products Recent Developments/Updates
- Table 55. QuartzCom Basic Information, Manufacturing Base and Competitors
- Table 56. QuartzCom Major Business
- Table 57. QuartzCom Thru-Hole Oscillator Product and Services

Table 58. QuartzCom Thru-Hole Oscillator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. QuartzCom Recent Developments/Updates

Table 60. SiTime Basic Information, Manufacturing Base and Competitors

Table 61. SiTime Major Business

Table 62. SiTime Thru-Hole Oscillator Product and Services

Table 63. SiTime Thru-Hole Oscillator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. SiTime Recent Developments/Updates

Table 65. AXTAL Basic Information, Manufacturing Base and Competitors

Table 66. AXTAL Major Business

Table 67. AXTAL Thru-Hole Oscillator Product and Services

Table 68. AXTAL Thru-Hole Oscillator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. AXTAL Recent Developments/Updates

Table 70. Rakon Basic Information, Manufacturing Base and Competitors

Table 71. Rakon Major Business

Table 72. Rakon Thru-Hole Oscillator Product and Services

Table 73. Rakon Thru-Hole Oscillator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 74. Rakon Recent Developments/Updates

Table 75. MURATA Basic Information, Manufacturing Base and Competitors

Table 76. MURATA Major Business

Table 77. MURATA Thru-Hole Oscillator Product and Services

Table 78. MURATA Thru-Hole Oscillator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. MURATA Recent Developments/Updates

Table 80. Siward Basic Information, Manufacturing Base and Competitors

Table 81. Siward Major Business

Table 82. Siward Thru-Hole Oscillator Product and Services

Table 83. Siward Thru-Hole Oscillator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Siward Recent Developments/Updates

Table 85. ACT Basic Information, Manufacturing Base and Competitors

Table 86. ACT Major Business

Table 87. ACT Thru-Hole Oscillator Product and Services

Table 88. ACT Thru-Hole Oscillator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 89. ACT Recent Developments/Updates

- Table 90. Parallax Basic Information, Manufacturing Base and Competitors
- Table 91. Parallax Major Business
- Table 92. Parallax Thru-Hole Oscillator Product and Services
- Table 93. Parallax Thru-Hole Oscillator Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 94. Parallax Recent Developments/Updates
- Table 95. Global Thru-Hole Oscillator Sales Quantity by Manufacturer (2021-2026) & (K Units)
- Table 96. Global Thru-Hole Oscillator Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 97. Global Thru-Hole Oscillator Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 98. Market Position of Manufacturers in Thru-Hole Oscillator, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
- Table 99. Head Office and Thru-Hole Oscillator Production Site of Key Manufacturer
- Table 100. Thru-Hole Oscillator Market: Company Product Type Footprint
- Table 101. Thru-Hole Oscillator Market: Company Product Application Footprint
- Table 102. Thru-Hole Oscillator New Market Entrants and Barriers to Market Entry
- Table 103. Thru-Hole Oscillator Mergers, Acquisition, Agreements, and Collaborations
- Table 104. Global Thru-Hole Oscillator Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
- Table 105. Global Thru-Hole Oscillator Sales Quantity by Region (2021-2026) & (K Units)
- Table 106. Global Thru-Hole Oscillator Sales Quantity by Region (2027-2032) & (K Units)
- Table 107. Global Thru-Hole Oscillator Consumption Value by Region (2021-2026) & (USD Million)
- Table 108. Global Thru-Hole Oscillator Consumption Value by Region (2027-2032) & (USD Million)
- Table 109. Global Thru-Hole Oscillator Average Price by Region (2021-2026) & (US\$/Unit)
- Table 110. Global Thru-Hole Oscillator Average Price by Region (2027-2032) & (US\$/Unit)
- Table 111. Global Thru-Hole Oscillator Sales Quantity by Pulling Range (2021-2026) & (K Units)
- Table 112. Global Thru-Hole Oscillator Sales Quantity by Pulling Range (2027-2032) & (K Units)
- Table 113. Global Thru-Hole Oscillator Consumption Value by Pulling Range (2021-2026) & (USD Million)

- Table 114. Global Thru-Hole Oscillator Consumption Value by Pulling Range (2027-2032) & (USD Million)
- Table 115. Global Thru-Hole Oscillator Average Price by Pulling Range (2021-2026) & (US\$/Unit)
- Table 116. Global Thru-Hole Oscillator Average Price by Pulling Range (2027-2032) & (US\$/Unit)
- Table 117. Global Thru-Hole Oscillator Sales Quantity by Application (2021-2026) & (K Units)
- Table 118. Global Thru-Hole Oscillator Sales Quantity by Application (2027-2032) & (K Units)
- Table 119. Global Thru-Hole Oscillator Consumption Value by Application (2021-2026) & (USD Million)
- Table 120. Global Thru-Hole Oscillator Consumption Value by Application (2027-2032) & (USD Million)
- Table 121. Global Thru-Hole Oscillator Average Price by Application (2021-2026) & (US\$/Unit)
- Table 122. Global Thru-Hole Oscillator Average Price by Application (2027-2032) & (US\$/Unit)
- Table 123. North America Thru-Hole Oscillator Sales Quantity by Pulling Range (2021-2026) & (K Units)
- Table 124. North America Thru-Hole Oscillator Sales Quantity by Pulling Range (2027-2032) & (K Units)
- Table 125. North America Thru-Hole Oscillator Sales Quantity by Application (2021-2026) & (K Units)
- Table 126. North America Thru-Hole Oscillator Sales Quantity by Application (2027-2032) & (K Units)
- Table 127. North America Thru-Hole Oscillator Sales Quantity by Country (2021-2026) & (K Units)
- Table 128. North America Thru-Hole Oscillator Sales Quantity by Country (2027-2032) & (K Units)
- Table 129. North America Thru-Hole Oscillator Consumption Value by Country (2021-2026) & (USD Million)
- Table 130. North America Thru-Hole Oscillator Consumption Value by Country (2027-2032) & (USD Million)
- Table 131. Europe Thru-Hole Oscillator Sales Quantity by Pulling Range (2021-2026) & (K Units)
- Table 132. Europe Thru-Hole Oscillator Sales Quantity by Pulling Range (2027-2032) & (K Units)
- Table 133. Europe Thru-Hole Oscillator Sales Quantity by Application (2021-2026) & (K

Units)

Table 134. Europe Thru-Hole Oscillator Sales Quantity by Application (2027-2032) & (K Units)

Table 135. Europe Thru-Hole Oscillator Sales Quantity by Country (2021-2026) & (K Units)

Table 136. Europe Thru-Hole Oscillator Sales Quantity by Country (2027-2032) & (K Units)

Table 137. Europe Thru-Hole Oscillator Consumption Value by Country (2021-2026) & (USD Million)

Table 138. Europe Thru-Hole Oscillator Consumption Value by Country (2027-2032) & (USD Million)

Table 139. Asia-Pacific Thru-Hole Oscillator Sales Quantity by Pulling Range (2021-2026) & (K Units)

Table 140. Asia-Pacific Thru-Hole Oscillator Sales Quantity by Pulling Range (2027-2032) & (K Units)

Table 141. Asia-Pacific Thru-Hole Oscillator Sales Quantity by Application (2021-2026) & (K Units)

Table 142. Asia-Pacific Thru-Hole Oscillator Sales Quantity by Application (2027-2032) & (K Units)

Table 143. Asia-Pacific Thru-Hole Oscillator Sales Quantity by Region (2021-2026) & (K Units)

Table 144. Asia-Pacific Thru-Hole Oscillator Sales Quantity by Region (2027-2032) & (K Units)

Table 145. Asia-Pacific Thru-Hole Oscillator Consumption Value by Region (2021-2026) & (USD Million)

Table 146. Asia-Pacific Thru-Hole Oscillator Consumption Value by Region (2027-2032) & (USD Million)

Table 147. South America Thru-Hole Oscillator Sales Quantity by Pulling Range (2021-2026) & (K Units)

Table 148. South America Thru-Hole Oscillator Sales Quantity by Pulling Range (2027-2032) & (K Units)

Table 149. South America Thru-Hole Oscillator Sales Quantity by Application (2021-2026) & (K Units)

Table 150. South America Thru-Hole Oscillator Sales Quantity by Application (2027-2032) & (K Units)

Table 151. South America Thru-Hole Oscillator Sales Quantity by Country (2021-2026) & (K Units)

Table 152. South America Thru-Hole Oscillator Sales Quantity by Country (2027-2032) & (K Units)

Table 153. South America Thru-Hole Oscillator Consumption Value by Country (2021-2026) & (USD Million)

Table 154. South America Thru-Hole Oscillator Consumption Value by Country (2027-2032) & (USD Million)

Table 155. Middle East & Africa Thru-Hole Oscillator Sales Quantity by Pulling Range (2021-2026) & (K Units)

Table 156. Middle East & Africa Thru-Hole Oscillator Sales Quantity by Pulling Range (2027-2032) & (K Units)

Table 157. Middle East & Africa Thru-Hole Oscillator Sales Quantity by Application (2021-2026) & (K Units)

Table 158. Middle East & Africa Thru-Hole Oscillator Sales Quantity by Application (2027-2032) & (K Units)

Table 159. Middle East & Africa Thru-Hole Oscillator Sales Quantity by Country (2021-2026) & (K Units)

Table 160. Middle East & Africa Thru-Hole Oscillator Sales Quantity by Country (2027-2032) & (K Units)

Table 161. Middle East & Africa Thru-Hole Oscillator Consumption Value by Country (2021-2026) & (USD Million)

Table 162. Middle East & Africa Thru-Hole Oscillator Consumption Value by Country (2027-2032) & (USD Million)

Table 163. Thru-Hole Oscillator Raw Material

Table 164. Key Manufacturers of Thru-Hole Oscillator Raw Materials

Table 165. Thru-Hole Oscillator Typical Distributors

Table 166. Thru-Hole Oscillator Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Thru-Hole Oscillator Picture

Figure 2. Global Thru-Hole Oscillator Revenue by Pulling Range, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Thru-Hole Oscillator Revenue Market Share by Pulling Range in 2025

Figure 4. ?50 ppm Examples

Figure 5. ?100 ppm Examples

Figure 6. ?200 ppm Examples

Figure 7. Others Examples

Figure 8. Global Thru-Hole Oscillator Revenue by Voltage, (USD Million), 2021 & 2025 & 2032

Figure 9. Global Thru-Hole Oscillator Revenue Market Share by Voltage in 2025

Figure 10. 3.3V Examples

Figure 11. 5V Examples

Figure 12. Others Examples

Figure 13. Global Thru-Hole Oscillator Revenue by Maximum Frequency, (USD Million), 2021 & 2025 & 2032

Figure 14. Global Thru-Hole Oscillator Revenue Market Share by Maximum Frequency in 2025

Figure 15. 100 MHz Examples

Figure 16. 125 MHz Examples

Figure 17. 150 MHz Examples

Figure 18. Global Thru-Hole Oscillator Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 19. Global Thru-Hole Oscillator Revenue Market Share by Application in 2025

Figure 20. Military Electronics Examples

Figure 21. Rail Transportation Examples

Figure 22. Aerospace Examples

Figure 23. Others Examples

Figure 24. Global Thru-Hole Oscillator Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 25. Global Thru-Hole Oscillator Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 26. Global Thru-Hole Oscillator Sales Quantity (2021-2032) & (K Units)

Figure 27. Global Thru-Hole Oscillator Price (2021-2032) & (US\$/Unit)

Figure 28. Global Thru-Hole Oscillator Sales Quantity Market Share by Manufacturer in

2025

Figure 29. Global Thru-Hole Oscillator Revenue Market Share by Manufacturer in 2025

Figure 30. Producer Shipments of Thru-Hole Oscillator by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 31. Top 3 Thru-Hole Oscillator Manufacturer (Revenue) Market Share in 2025

Figure 32. Top 6 Thru-Hole Oscillator Manufacturer (Revenue) Market Share in 2025

Figure 33. Global Thru-Hole Oscillator Sales Quantity Market Share by Region (2021-2032)

Figure 34. Global Thru-Hole Oscillator Consumption Value Market Share by Region (2021-2032)

Figure 35. North America Thru-Hole Oscillator Consumption Value (2021-2032) & (USD Million)

Figure 36. Europe Thru-Hole Oscillator Consumption Value (2021-2032) & (USD Million)

Figure 37. Asia-Pacific Thru-Hole Oscillator Consumption Value (2021-2032) & (USD Million)

Figure 38. South America Thru-Hole Oscillator Consumption Value (2021-2032) & (USD Million)

Figure 39. Middle East & Africa Thru-Hole Oscillator Consumption Value (2021-2032) & (USD Million)

Figure 40. Global Thru-Hole Oscillator Sales Quantity Market Share by Pulling Range (2021-2032)

Figure 41. Global Thru-Hole Oscillator Consumption Value Market Share by Pulling Range (2021-2032)

Figure 42. Global Thru-Hole Oscillator Average Price by Pulling Range (2021-2032) & (US\$/Unit)

Figure 43. Global Thru-Hole Oscillator Sales Quantity Market Share by Application (2021-2032)

Figure 44. Global Thru-Hole Oscillator Revenue Market Share by Application (2021-2032)

Figure 45. Global Thru-Hole Oscillator Average Price by Application (2021-2032) & (US\$/Unit)

Figure 46. North America Thru-Hole Oscillator Sales Quantity Market Share by Pulling Range (2021-2032)

Figure 47. North America Thru-Hole Oscillator Sales Quantity Market Share by Application (2021-2032)

Figure 48. North America Thru-Hole Oscillator Sales Quantity Market Share by Country (2021-2032)

Figure 49. North America Thru-Hole Oscillator Consumption Value Market Share by

Country (2021-2032)

Figure 50. United States Thru-Hole Oscillator Consumption Value (2021-2032) & (USD Million)

Figure 51. Canada Thru-Hole Oscillator Consumption Value (2021-2032) & (USD Million)

Figure 52. Mexico Thru-Hole Oscillator Consumption Value (2021-2032) & (USD Million)

Figure 53. Europe Thru-Hole Oscillator Sales Quantity Market Share by Pulling Range (2021-2032)

Figure 54. Europe Thru-Hole Oscillator Sales Quantity Market Share by Application (2021-2032)

Figure 55. Europe Thru-Hole Oscillator Sales Quantity Market Share by Country (2021-2032)

Figure 56. Europe Thru-Hole Oscillator Consumption Value Market Share by Country (2021-2032)

Figure 57. Germany Thru-Hole Oscillator Consumption Value (2021-2032) & (USD Million)

Figure 58. France Thru-Hole Oscillator Consumption Value (2021-2032) & (USD Million)

Figure 59. United Kingdom Thru-Hole Oscillator Consumption Value (2021-2032) & (USD Million)

Figure 60. Russia Thru-Hole Oscillator Consumption Value (2021-2032) & (USD Million)

Figure 61. Italy Thru-Hole Oscillator Consumption Value (2021-2032) & (USD Million)

Figure 62. Asia-Pacific Thru-Hole Oscillator Sales Quantity Market Share by Pulling Range (2021-2032)

Figure 63. Asia-Pacific Thru-Hole Oscillator Sales Quantity Market Share by Application (2021-2032)

Figure 64. Asia-Pacific Thru-Hole Oscillator Sales Quantity Market Share by Region (2021-2032)

Figure 65. Asia-Pacific Thru-Hole Oscillator Consumption Value Market Share by Region (2021-2032)

Figure 66. China Thru-Hole Oscillator Consumption Value (2021-2032) & (USD Million)

Figure 67. Japan Thru-Hole Oscillator Consumption Value (2021-2032) & (USD Million)

Figure 68. South Korea Thru-Hole Oscillator Consumption Value (2021-2032) & (USD Million)

Figure 69. India Thru-Hole Oscillator Consumption Value (2021-2032) & (USD Million)

Figure 70. Southeast Asia Thru-Hole Oscillator Consumption Value (2021-2032) & (USD Million)

Figure 71. Australia Thru-Hole Oscillator Consumption Value (2021-2032) & (USD Million)

Figure 72. South America Thru-Hole Oscillator Sales Quantity Market Share by Pulling

Range (2021-2032)

Figure 73. South America Thru-Hole Oscillator Sales Quantity Market Share by Application (2021-2032)

Figure 74. South America Thru-Hole Oscillator Sales Quantity Market Share by Country (2021-2032)

Figure 75. South America Thru-Hole Oscillator Consumption Value Market Share by Country (2021-2032)

Figure 76. Brazil Thru-Hole Oscillator Consumption Value (2021-2032) & (USD Million)

Figure 77. Argentina Thru-Hole Oscillator Consumption Value (2021-2032) & (USD Million)

Figure 78. Middle East & Africa Thru-Hole Oscillator Sales Quantity Market Share by Pulling Range (2021-2032)

Figure 79. Middle East & Africa Thru-Hole Oscillator Sales Quantity Market Share by Application (2021-2032)

Figure 80. Middle East & Africa Thru-Hole Oscillator Sales Quantity Market Share by Country (2021-2032)

Figure 81. Middle East & Africa Thru-Hole Oscillator Consumption Value Market Share by Country (2021-2032)

Figure 82. Turkey Thru-Hole Oscillator Consumption Value (2021-2032) & (USD Million)

Figure 83. Egypt Thru-Hole Oscillator Consumption Value (2021-2032) & (USD Million)

Figure 84. Saudi Arabia Thru-Hole Oscillator Consumption Value (2021-2032) & (USD Million)

Figure 85. South Africa Thru-Hole Oscillator Consumption Value (2021-2032) & (USD Million)

Figure 86. Thru-Hole Oscillator Market Drivers

Figure 87. Thru-Hole Oscillator Market Restraints

Figure 88. Thru-Hole Oscillator Market Trends

Figure 89. Porters Five Forces Analysis

Figure 90. Manufacturing Cost Structure Analysis of Thru-Hole Oscillator in 2025

Figure 91. Manufacturing Process Analysis of Thru-Hole Oscillator

Figure 92. Thru-Hole Oscillator Industrial Chain

Figure 93. Sales Channel: Direct to End-User vs Distributors

Figure 94. Direct Channel Pros & Cons

Figure 95. Indirect Channel Pros & Cons

Figure 96. Methodology

Figure 97. Research Process and Data Source

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