

Global Ultra-Low Phase Noise Microwave Source Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ultra-Low Phase Noise Microwave Source market size is expected to reach \$ 353 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032).

In 2025, global ultra-low phase noise microwave sources production reached approximately 198 k units, the average price is 1100 usd/unit. Ultra-low phase noise microwave sources refer to high-precision signal sources with output frequencies in the microwave band and phase noise performance significantly better than conventional frequency synthesizers. They are generally implemented through architectures such as low-noise crystal oscillator reference + low-noise PLL + frequency multiplier/divider chain or optical frequency comb/PDRO. The phase noise at a specified frequency offset can reach the order of -160 dBc/Hz or even lower, making them key local oscillators and excitation sources for scenarios such as radar, satellite communication, quantum experiments and metrology calibration.

The gross profit margin of ultra-low phase noise microwave sources is around 28%.

This report studies the global Ultra-Low Phase Noise Microwave Source production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ultra-Low Phase Noise Microwave Source 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 Ultra-Low Phase Noise Microwave Source that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ultra-Low Phase Noise Microwave Source total production and demand, 2021-2032, (K Units)

Global Ultra-Low Phase Noise Microwave Source total production value, 2021-2032, (USD Million)

Global Ultra-Low Phase Noise Microwave Source production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Ultra-Low Phase Noise Microwave Source consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Ultra-Low Phase Noise Microwave Source domestic production, consumption, key domestic manufacturers and share

Global Ultra-Low Phase Noise Microwave Source production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Ultra-Low Phase Noise Microwave Source production by Channel, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Ultra-Low Phase Noise Microwave Source production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Ultra-Low Phase Noise Microwave Source 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 Keysight, Rohde & Schwarz, Anritsu, Maury Microwave, Berkeley Nucleonics, Tabor Electronics, SignalCore, Micro Lambda Wireless, Quantic Electronics, Menlo Systems, 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 Ultra-Low Phase Noise Microwave Source 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 Channel, 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 Ultra-Low Phase Noise Microwave Source Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ultra-Low Phase Noise Microwave Source Market, Segmentation by Channel:

Single-channel Source

Dual-channel Source

Multi-channel Source

Global Ultra-Low Phase Noise Microwave Source Market, Segmentation by Frequency:

1-20 GHz

20-40 GHz

40-67 GHz

Above 67 GHz

Global Ultra-Low Phase Noise Microwave Source Market, Segmentation by Application:

Satellite Communication

Radar System

Quantum Computing

Others

Companies Profiled:

Keysight

Rohde & Schwarz

Anritsu

Maury Microwave

Berkeley Nucleonics

Tabor Electronics

SignalCore

Micro Lambda Wireless

Quantic Electronics

Menlo Systems

OEwaves

Beijing Ising Intelligent Technology

Sinolink Technologies

Sample Technology (Shanghai)

Key Questions Answered:

1. How big is the global Ultra-Low Phase Noise Microwave Source market?
2. What is the demand of the global Ultra-Low Phase Noise Microwave Source market?
3. What is the year over year growth of the global Ultra-Low Phase Noise Microwave Source market?
4. What is the production and production value of the global Ultra-Low Phase Noise Microwave Source market?
5. Who are the key producers in the global Ultra-Low Phase Noise Microwave Source market?
6. What are the growth factors driving the market demand?

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