

# Global High Frequency Comb Generators Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global High Frequency Comb Generators market size was valued at US\$ 26.33 million in 2025 and is forecast to a readjusted size of US\$ 38.76 million by 2032 with a CAGR of 5.6% during review period.

High Frequency Comb Generators refer to signal generation devices operating in the upper RF, microwave and certain millimeter-wave frequency ranges, capable of producing evenly spaced spectral lines across a broad frequency spectrum. The product scope typically includes broadband EMC reference sources, high-frequency phase calibration sources, harmonic comb generator modules, and certain connectorized microwave modules. These products are mainly used in EMC/EMI testing, test and measurement calibration, VNA/NVNA phase calibration, RF and microwave link verification, radar and defense electronics, satellite communications, millimeter-wave communications, and high-frequency semiconductor device R&D. Upstream materials and key components mainly include step recovery diodes, nonlinear transmission line chips, GaAs/GaN/Si-based microwave devices, low-phase-noise clock sources, RF connectors, coaxial packages, high-frequency PCBs, power management devices, shielding housings, and calibration software. Major downstream customers include EMC test laboratories, third-party testing organizations, test and measurement instrument manufacturers, communications equipment companies, aerospace and defense electronics customers, radar system companies, semiconductor and microwave device R&D institutes, universities, and research laboratories. On an ex-factory price basis, global High Frequency Comb Generator capacity in 2025 is estimated at about 6,200 units, while global sales volume is estimated at about 4,376 units. This segment is mainly driven by microwave and millimeter-wave testing,

calibration and R&D demand, with lower shipment volume than general EMC Comb Generators but higher unit value. The global average ex-factory price in 2025 is estimated at about USD 5,850 per unit.

The global High Frequency Comb Generator market is a high-value segment within the broader Comb Generator industry, with demand mainly concentrated in microwave test and measurement, advanced EMC verification, VNA/NVNA calibration, radar electronics, satellite communications, millimeter-wave communications, and high-frequency semiconductor device R&D. Compared with low-frequency or general EMC reference sources, high-frequency products require stronger performance in frequency coverage, spectral flatness, phase stability, connector quality, packaging consistency, and calibration data reliability. Customers therefore place greater emphasis on long-term stability, test-system compatibility, and traceable calibration capability. On the supply side, the market is still mainly led by European and U.S. test and measurement companies and specialized microwave component suppliers, while Chinese companies are gradually improving in high-frequency connectorized modules, harmonic sources, and customized engineering products. However, a technical gap remains in high-end broadband phase calibration and millimeter-wave products.

Future market growth will mainly benefit from the upward shift of electronic system frequencies and increasing test complexity. As communications equipment, automotive radar, satellite communications, aerospace electronics, and defense electronics move toward higher frequencies, wider bandwidths, and higher integration, R&D organizations and laboratories will continue to increase their demand for high-frequency reference signal sources, phase calibration sources, and frequency synthesis modules. At the same time, the continued evolution of 5G, early-stage 6G research, low-earth-orbit satellite networks, millimeter-wave radar, and high-frequency semiconductor device testing will push test frequencies further into the millimeter-wave range, driving upgrades in broadband coverage, low phase noise, amplitude and phase consistency, and automated test compatibility.

Key growth drivers include upgrades in test and measurement equipment, expansion of millimeter-wave applications, increased R&D investment in defense electronics, and the build-out of laboratory calibration capabilities. High-end network analyzers, spectrum analyzers, nonlinear device test systems, radar front-end validation platforms, and communications system test platforms all require stable high-frequency reference spectra, supporting the evolution of High Frequency Comb Generators from standalone reference sources toward system calibration, frequency synthesis, and modular integration. In parallel, the improvement of the domestic RF and microwave supply

chain will also support partial localization demand, especially in mid- to high-frequency modules, engineering support products, and customized test sources, where Chinese and Asia-Pacific suppliers are expected to gain more opportunities.

The main barriers to market development lie in the high thresholds for high-frequency design and manufacturing, long customer qualification cycles, and the specialized nature and limited scale of demand. High Frequency Comb Generators must address broadband harmonic generation, millimeter-wave packaging, low-loss interconnection, phase stability, thermal management, and calibration traceability at the same time, making R&D and test costs significantly higher than those of general EMC reference sources. For high-end customers, products must not only meet specification targets but also pass system-level validation and long-term stability verification, resulting in long adoption cycles for new entrants. In addition, the high costs of millimeter-wave connectors, high-frequency packaging, precision calibration services, and advanced test equipment increase the purchasing threshold for end users. Overall, the market is expected to maintain steady growth and high-end upgrading, with moderate volume expansion but continued increases in unit value, technical content, and system integration value.

This report is a detailed and comprehensive analysis for global High Frequency Comb Generators market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type 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 High Frequency Comb Generators market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global High Frequency Comb Generators market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global High Frequency Comb Generators market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling

prices (US\$/Unit), 2021-2032

Global High Frequency Comb Generators market shares of main players, shipments in revenue (\$ Million), sales quantity (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 High Frequency Comb Generators

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 High Frequency Comb Generators 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 Keysight Technologies, Rohde & Schwarz, MACOM Technology Solutions, Marki Microwave, Quantic PMI, AMCAD MW, Schwarzbeck Mess-Elektronik, Eurofins Scientific, Com-Power Corporation, Tekbox Digital Solutions, etc.

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

## Market Segmentation

High Frequency Comb Generators market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, 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 Type

### High-Frequency EMC Comb Generators

Phase Calibration Comb Generators

Frequency Synthesis Comb Generators

NLTL/MMIC Comb Generators

#### Market segment by Frequency Range

RF Comb Generators

Microwave Comb Generators

Millimeter-Wave Comb Generators

#### Market segment by Product Form

Portable Comb Generators

Bench-Top Comb Generators

Module Comb Generators

#### Market segment by Application

EMC/EMI Testing

Test and Measurement Calibration

RF and Microwave Systems

Radar and Defense Electronics

Communications and Aerospace

Research and Laboratory Use

## Major players covered

Keysight Technologies

Rohde & Schwarz

MACOM Technology Solutions

Marki Microwave

Quantic PMI

AMCAD MW

Schwarzbeck Mess-Elektronik

Eurofins Scientific

Com-Power Corporation

Tekbox Digital Solutions

Chengdu SiCore Semiconductor

Chengdu Hongke Electronic Technology

Talent Microwave

EMC Instruments Corporation

## 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 High Frequency Comb Generators product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High Frequency Comb Generators, with price, sales quantity, revenue, and global market share of High Frequency Comb Generators from 2021 to 2026.

Chapter 3, the High Frequency Comb Generators competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High Frequency Comb Generators 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 Type and by Application, with sales market share and growth rate by Type, 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 High Frequency Comb Generators market forecast, by regions, by Type, 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 High Frequency Comb Generators.

Chapter 14 and 15, to describe High Frequency Comb Generators sales channel, distributors, customers, research findings and conclusion.

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