

Global Waveguide Probe Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Waveguide Probe market size is expected to reach \$ 1593 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

A waveguide probe is a critical tool for microwave and radio-frequency measurements, widely used in testing, diagnostics, and the development and manufacturing of communication devices. It transmits electromagnetic waves to test the electrical properties of materials, ensuring the performance of devices across various operating frequencies. These products play an essential role in sectors such as communications, aerospace, defense, automotive, and consumer electronics, especially in high-precision testing and design processes. With the continuous advancement of technology, the application areas of waveguide probes are expanding.

The demand for waveguide probes has significantly increased in recent years, driven primarily by technological innovations, the broad demand from downstream applications, and the growth of global manufacturing industries. As industries like 5G, satellite communications, and automotive electronics rapidly develop, the market opportunities for waveguide probes continue to grow. In particular, in high-frequency measurement and high-precision detection fields, waveguide probes offer distinct advantages. Policy support, technological upgrades, and the stability of raw material supply chains are also key factors driving market expansion. However, the market also faces challenges, particularly in areas like raw material cost fluctuations, increasing technological complexity, and changes in international trade policies, which may impact the long-term stability of market growth.

The waveguide probe industry chain includes several stages, from raw material supply to final product application. At the upstream level, key raw materials include copper,

aluminum, ceramics, and others, with suppliers like L-TEQ and Flann Microwave playing an important role globally. The downstream market is primarily composed of communication device manufacturers, aerospace companies, and electronics firms. Companies like FormFactor and Pasternack are market leaders, providing high-quality waveguide probe solutions and operating globally. The market demand is increasingly focused on high precision and reliability, particularly in satellite communications, military applications, and automotive electronics, where there is a growing need for advanced technology.

The waveguide probe market is exhibiting clear segmentation trends. With the rapid development of high-frequency communications and quantum technologies, demand in the communications sector continues to grow. The aerospace and military sectors also have a significantly increasing demand for high-precision detection, driving technological innovations in waveguide probes. Additionally, with the rapid development of new energy vehicles and autonomous driving technologies, the demand for waveguide probes in the automotive electronics sector is also increasing. These trends indicate that the communication, military, and automotive sectors will be the main growth drivers for waveguide probes in the coming years.

Regionally, North America remains a key consumer market for waveguide probes, especially in the United States, where demand continues to grow due to advancements in military and aerospace technologies. The Asia-Pacific region, particularly China and India, is becoming an important market for the growth of waveguide probe demand. China's rapid development in the communications, automotive manufacturing, and consumer electronics sectors presents new opportunities for the waveguide probe market. Additionally, the European market is steadily growing, with countries like Germany and France driving demand in the automotive and industrial manufacturing sectors, further advancing waveguide probe applications. Overall, the global markets are exhibiting diversified growth patterns, with demand for waveguide probes expected to continue expanding.

In 2022, FormFactor launched a new generation of high-frequency waveguide probes with higher precision and broader applications to meet the growing demand in the 5G and satellite communication markets. In 2021, Flann Microwave entered into a partnership with a leading aerospace company in the United States to provide waveguide probe products, supporting the development of its high-frequency communication systems. In 2020, NEXT PHASE MEASUREMENTS secured government funding to develop next-generation waveguide probe technologies for future quantum communication applications.

This report studies the global Waveguide Probe production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Waveguide Probe total production and demand, 2021-2032, (K Units)

Global Waveguide Probe total production value, 2021-2032, (USD Million)

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

Global Waveguide Probe consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Waveguide Probe domestic production, consumption, key domestic manufacturers and share

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

Global Waveguide Probe production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Waveguide Probe production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Waveguide Probe 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 Heilongjiang Yidian Technology Co., Ltd., Xi'an Elite Electronics Co., Ltd., Beijing Bokaida Technology Co., Ltd., Beijing Yerson Technology Co., Ltd., Universal Microwave Technology, Inc. (UMT), NSI?MI Technologies, Flann Microwave Ltd., QuinStar Technology Inc., Pasternack Enterprises, Inc., Southwest Microwave, Inc., 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 Waveguide Probe 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 Type, 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 Waveguide Probe Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Waveguide Probe Market, Segmentation by Type:

Rectangle

Circular

Other

Global Waveguide Probe Market, Segmentation by Frequency Range Band:

Low Frequency Probes

Mid Frequency Probes

High Frequency Probes

Millimeter/Microwave Band Probes

Global Waveguide Probe Market, Segmentation by Mechanical Configuration:

Rigid Body Probes

Flexible/Articulated Probes

Micro?Miniature Probes

Global Waveguide Probe Market, Segmentation by Application:

Acoustics

Optics

Other

Companies Profiled:

Heilongjiang Yidian Technology Co., Ltd.

Xi'an Elite Electronics Co., Ltd.

Beijing Bokaida Technology Co., Ltd.

Beijing Yerson Technology Co., Ltd.

Universal Microwave Technology, Inc. (UMT)

NSI?MI Technologies

Flann Microwave Ltd.

QuinStar Technology Inc.

Pasternack Enterprises, Inc.

Southwest Microwave, Inc.

L?TEQ Microwave Technology

HI Microwave (HIMIC)

Narda?MITEQ

Virginia Diodes, Inc.

Millitech, Inc.

AEM, Inc.

Cobham Microwave/Colt

OML Inc.

K&L Microwave

Teledyne e2v

Synergy Microwave Corporation

Microwaves & Optics (MWO)

AEL Society Ltd.

QMC Instruments Ltd.

United Monolithic Semiconductors

Analogue Microelectronics GmbH

Rohde & Schwarz

Keysight Technologies

Anritsu Corporation

National Instruments

Tektronix

Qorvo

Analog Devices

Broadcom Inc.

Skyworks Solutions

Infineon Technologies AG

TE Connectivity

Amphenol RF

HUBER+SUHNER AG

Rosenberger

SINOINFOUN (XIAN) MICROWAVE TECHNOLOGY CO LTD

Qualwave Inc

Key Questions Answered:

1. How big is the global Waveguide Probe market?
2. What is the demand of the global Waveguide Probe market?

3. What is the year over year growth of the global Waveguide Probe market?
4. What is the production and production value of the global Waveguide Probe market?
5. Who are the key producers in the global Waveguide Probe market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Waveguide Probe Introduction
- 1.2 World Waveguide Probe Supply & Forecast
 - 1.2.1 World Waveguide Probe Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Waveguide Probe Production (2021-2032)
 - 1.2.3 World Waveguide Probe Pricing Trends (2021-2032)
- 1.3 World Waveguide Probe Production by Region (Based on Production Site)
 - 1.3.1 World Waveguide Probe Production Value by Region (2021-2032)
 - 1.3.2 World Waveguide Probe Production by Region (2021-2032)
 - 1.3.3 World Waveguide Probe Average Price by Region (2021-2032)
 - 1.3.4 North America Waveguide Probe Production (2021-2032)
 - 1.3.5 Europe Waveguide Probe Production (2021-2032)
 - 1.3.6 China Waveguide Probe Production (2021-2032)
 - 1.3.7 Japan Waveguide Probe Production (2021-2032)
 - 1.3.8 South Korea Waveguide Probe Production (2021-2032)
 - 1.3.9 China Taiwan Waveguide Probe Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Waveguide Probe Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Waveguide Probe Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Waveguide Probe Demand (2021-2032)
- 2.2 World Waveguide Probe Consumption by Region
 - 2.2.1 World Waveguide Probe Consumption by Region (2021-2026)
 - 2.2.2 World Waveguide Probe Consumption Forecast by Region (2027-2032)
- 2.3 United States Waveguide Probe Consumption (2021-2032)
- 2.4 China Waveguide Probe Consumption (2021-2032)
- 2.5 Europe Waveguide Probe Consumption (2021-2032)
- 2.6 Japan Waveguide Probe Consumption (2021-2032)
- 2.7 South Korea Waveguide Probe Consumption (2021-2032)
- 2.8 ASEAN Waveguide Probe Consumption (2021-2032)
- 2.9 India Waveguide Probe Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Waveguide Probe Production Value by Manufacturer (2021-2026)
- 3.2 World Waveguide Probe Production by Manufacturer (2021-2026)
- 3.3 World Waveguide Probe Average Price by Manufacturer (2021-2026)
- 3.4 Waveguide Probe Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Waveguide Probe Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Waveguide Probe in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Waveguide Probe in 2025
- 3.6 Waveguide Probe Market: Overall Company Footprint Analysis
 - 3.6.1 Waveguide Probe Market: Region Footprint
 - 3.6.2 Waveguide Probe Market: Company Product Type Footprint
 - 3.6.3 Waveguide Probe Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Waveguide Probe Production Value Comparison
 - 4.1.1 United States VS China: Waveguide Probe Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Waveguide Probe Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Waveguide Probe Production Comparison
 - 4.2.1 United States VS China: Waveguide Probe Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Waveguide Probe Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Waveguide Probe Consumption Comparison
 - 4.3.1 United States VS China: Waveguide Probe Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Waveguide Probe Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Waveguide Probe Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Waveguide Probe Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Waveguide Probe Production Value (2021-2026)

4.4.3 United States Based Manufacturers Waveguide Probe Production (2021-2026)
4.5 China Based Waveguide Probe Manufacturers and Market Share

4.5.1 China Based Waveguide Probe Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Waveguide Probe Production Value (2021-2026)

4.5.3 China Based Manufacturers Waveguide Probe Production (2021-2026)

4.6 Rest of World Based Waveguide Probe Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Waveguide Probe Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Waveguide Probe Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Waveguide Probe Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Waveguide Probe Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Rectangle

5.2.2 Circular

5.2.3 Other

5.3 Market Segment by Type

5.3.1 World Waveguide Probe Production by Type (2021-2032)

5.3.2 World Waveguide Probe Production Value by Type (2021-2032)

5.3.3 World Waveguide Probe Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY FREQUENCY RANGE BAND

6.1 World Waveguide Probe Market Size Overview by Frequency Range Band: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Frequency Range Band

6.2.1 Low Frequency Probes

6.2.2 Mid Frequency Probes

6.2.3 High Frequency Probes

6.2.4 Millimeter/Microwave Band Probes

6.3 Market Segment by Frequency Range Band

6.3.1 World Waveguide Probe Production by Frequency Range Band (2021-2032)

6.3.2 World Waveguide Probe Production Value by Frequency Range Band (2021-2032)

6.3.3 World Waveguide Probe Average Price by Frequency Range Band (2021-2032)

7 MARKET ANALYSIS BY MECHANICAL CONFIGURATION

7.1 World Waveguide Probe Market Size Overview by Mechanical Configuration: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Mechanical Configuration

7.2.1 Rigid Body Probes

7.2.2 Flexible/Articulated Probes

7.2.3 Micro?Miniature Probes

7.3 Market Segment by Mechanical Configuration

7.3.1 World Waveguide Probe Production by Mechanical Configuration (2021-2032)

7.3.2 World Waveguide Probe Production Value by Mechanical Configuration (2021-2032)

7.3.3 World Waveguide Probe Average Price by Mechanical Configuration (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Waveguide Probe Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Acoustics

8.2.2 Optics

8.2.3 Other

8.3 Market Segment by Application

8.3.1 World Waveguide Probe Production by Application (2021-2032)

8.3.2 World Waveguide Probe Production Value by Application (2021-2032)

8.3.3 World Waveguide Probe Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Heilongjiang Yidian Technology Co., Ltd.

9.1.1 Heilongjiang Yidian Technology Co., Ltd. Details

9.1.2 Heilongjiang Yidian Technology Co., Ltd. Major Business

9.1.3 Heilongjiang Yidian Technology Co., Ltd. Waveguide Probe Product and Services

9.1.4 Heilongjiang Yidian Technology Co., Ltd. Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Heilongjiang Yidian Technology Co., Ltd. Recent Developments/Updates

9.1.6 Heilongjiang Yidian Technology Co., Ltd. Competitive Strengths & Weaknesses

9.2 Xi'an Elite Electronics Co., Ltd.

9.2.1 Xi'an Elite Electronics Co., Ltd. Details

9.2.2 Xi'an Elite Electronics Co., Ltd. Major Business

9.2.3 Xi'an Elite Electronics Co., Ltd. Waveguide Probe Product and Services

9.2.4 Xi'an Elite Electronics Co., Ltd. Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Xi'an Elite Electronics Co., Ltd. Recent Developments/Updates

9.2.6 Xi'an Elite Electronics Co., Ltd. Competitive Strengths & Weaknesses

9.3 Beijing Bokaida Technology Co., Ltd.

9.3.1 Beijing Bokaida Technology Co., Ltd. Details

9.3.2 Beijing Bokaida Technology Co., Ltd. Major Business

9.3.3 Beijing Bokaida Technology Co., Ltd. Waveguide Probe Product and Services

9.3.4 Beijing Bokaida Technology Co., Ltd. Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Beijing Bokaida Technology Co., Ltd. Recent Developments/Updates

9.3.6 Beijing Bokaida Technology Co., Ltd. Competitive Strengths & Weaknesses

9.4 Beijing Yerson Technology Co., Ltd.

9.4.1 Beijing Yerson Technology Co., Ltd. Details

9.4.2 Beijing Yerson Technology Co., Ltd. Major Business

9.4.3 Beijing Yerson Technology Co., Ltd. Waveguide Probe Product and Services

9.4.4 Beijing Yerson Technology Co., Ltd. Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Beijing Yerson Technology Co., Ltd. Recent Developments/Updates

9.4.6 Beijing Yerson Technology Co., Ltd. Competitive Strengths & Weaknesses

9.5 Universal Microwave Technology, Inc. (UMT)

9.5.1 Universal Microwave Technology, Inc. (UMT) Details

9.5.2 Universal Microwave Technology, Inc. (UMT) Major Business

9.5.3 Universal Microwave Technology, Inc. (UMT) Waveguide Probe Product and Services

9.5.4 Universal Microwave Technology, Inc. (UMT) Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Universal Microwave Technology, Inc. (UMT) Recent Developments/Updates

9.5.6 Universal Microwave Technology, Inc. (UMT) Competitive Strengths &

Weaknesses

9.6 NSI?MI Technologies

9.6.1 NSI?MI Technologies Details

9.6.2 NSI?MI Technologies Major Business

9.6.3 NSI?MI Technologies Waveguide Probe Product and Services

9.6.4 NSI?MI Technologies Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 NSI?MI Technologies Recent Developments/Updates

9.6.6 NSI?MI Technologies Competitive Strengths & Weaknesses

9.7 Flann Microwave Ltd.

9.7.1 Flann Microwave Ltd. Details

9.7.2 Flann Microwave Ltd. Major Business

9.7.3 Flann Microwave Ltd. Waveguide Probe Product and Services

9.7.4 Flann Microwave Ltd. Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Flann Microwave Ltd. Recent Developments/Updates

9.7.6 Flann Microwave Ltd. Competitive Strengths & Weaknesses

9.8 QuinStar Technology Inc.

9.8.1 QuinStar Technology Inc. Details

9.8.2 QuinStar Technology Inc. Major Business

9.8.3 QuinStar Technology Inc. Waveguide Probe Product and Services

9.8.4 QuinStar Technology Inc. Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 QuinStar Technology Inc. Recent Developments/Updates

9.8.6 QuinStar Technology Inc. Competitive Strengths & Weaknesses

9.9 Pasternack Enterprises, Inc.

9.9.1 Pasternack Enterprises, Inc. Details

9.9.2 Pasternack Enterprises, Inc. Major Business

9.9.3 Pasternack Enterprises, Inc. Waveguide Probe Product and Services

9.9.4 Pasternack Enterprises, Inc. Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Pasternack Enterprises, Inc. Recent Developments/Updates

9.9.6 Pasternack Enterprises, Inc. Competitive Strengths & Weaknesses

9.10 Southwest Microwave, Inc.

9.10.1 Southwest Microwave, Inc. Details

9.10.2 Southwest Microwave, Inc. Major Business

9.10.3 Southwest Microwave, Inc. Waveguide Probe Product and Services

9.10.4 Southwest Microwave, Inc. Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.10.5 Southwest Microwave, Inc. Recent Developments/Updates
- 9.10.6 Southwest Microwave, Inc. Competitive Strengths & Weaknesses
- 9.11 L?TEQ Microwave Technology
 - 9.11.1 L?TEQ Microwave Technology Details
 - 9.11.2 L?TEQ Microwave Technology Major Business
 - 9.11.3 L?TEQ Microwave Technology Waveguide Probe Product and Services
 - 9.11.4 L?TEQ Microwave Technology Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 L?TEQ Microwave Technology Recent Developments/Updates
 - 9.11.6 L?TEQ Microwave Technology Competitive Strengths & Weaknesses
- 9.12 HI Microwave (HIMIC)
 - 9.12.1 HI Microwave (HIMIC) Details
 - 9.12.2 HI Microwave (HIMIC) Major Business
 - 9.12.3 HI Microwave (HIMIC) Waveguide Probe Product and Services
 - 9.12.4 HI Microwave (HIMIC) Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 HI Microwave (HIMIC) Recent Developments/Updates
 - 9.12.6 HI Microwave (HIMIC) Competitive Strengths & Weaknesses
- 9.13 Narda?MITEQ
 - 9.13.1 Narda?MITEQ Details
 - 9.13.2 Narda?MITEQ Major Business
 - 9.13.3 Narda?MITEQ Waveguide Probe Product and Services
 - 9.13.4 Narda?MITEQ Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Narda?MITEQ Recent Developments/Updates
 - 9.13.6 Narda?MITEQ Competitive Strengths & Weaknesses
- 9.14 Virginia Diodes, Inc.
 - 9.14.1 Virginia Diodes, Inc. Details
 - 9.14.2 Virginia Diodes, Inc. Major Business
 - 9.14.3 Virginia Diodes, Inc. Waveguide Probe Product and Services
 - 9.14.4 Virginia Diodes, Inc. Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Virginia Diodes, Inc. Recent Developments/Updates
 - 9.14.6 Virginia Diodes, Inc. Competitive Strengths & Weaknesses
- 9.15 Millitech, Inc.
 - 9.15.1 Millitech, Inc. Details
 - 9.15.2 Millitech, Inc. Major Business
 - 9.15.3 Millitech, Inc. Waveguide Probe Product and Services
 - 9.15.4 Millitech, Inc. Waveguide Probe Production, Price, Value, Gross Margin and

Market Share (2021-2026)

- 9.15.5 Millitech, Inc. Recent Developments/Updates
- 9.15.6 Millitech, Inc. Competitive Strengths & Weaknesses

9.16 AEM, Inc.

- 9.16.1 AEM, Inc. Details
- 9.16.2 AEM, Inc. Major Business
- 9.16.3 AEM, Inc. Waveguide Probe Product and Services
- 9.16.4 AEM, Inc. Waveguide Probe Production, Price, Value, Gross Margin and

Market Share (2021-2026)

- 9.16.5 AEM, Inc. Recent Developments/Updates
- 9.16.6 AEM, Inc. Competitive Strengths & Weaknesses

9.17 Cobham Microwave/Colt

- 9.17.1 Cobham Microwave/Colt Details
- 9.17.2 Cobham Microwave/Colt Major Business
- 9.17.3 Cobham Microwave/Colt Waveguide Probe Product and Services
- 9.17.4 Cobham Microwave/Colt Waveguide Probe Production, Price, Value, Gross

Margin and Market Share (2021-2026)

- 9.17.5 Cobham Microwave/Colt Recent Developments/Updates
- 9.17.6 Cobham Microwave/Colt Competitive Strengths & Weaknesses

9.18 OML Inc.

- 9.18.1 OML Inc. Details
- 9.18.2 OML Inc. Major Business
- 9.18.3 OML Inc. Waveguide Probe Product and Services
- 9.18.4 OML Inc. Waveguide Probe Production, Price, Value, Gross Margin and Market

Share (2021-2026)

- 9.18.5 OML Inc. Recent Developments/Updates
- 9.18.6 OML Inc. Competitive Strengths & Weaknesses

9.19 K&L Microwave

- 9.19.1 K&L Microwave Details
- 9.19.2 K&L Microwave Major Business
- 9.19.3 K&L Microwave Waveguide Probe Product and Services
- 9.19.4 K&L Microwave Waveguide Probe Production, Price, Value, Gross Margin and

Market Share (2021-2026)

- 9.19.5 K&L Microwave Recent Developments/Updates
- 9.19.6 K&L Microwave Competitive Strengths & Weaknesses

9.20 Teledyne e2v

- 9.20.1 Teledyne e2v Details
- 9.20.2 Teledyne e2v Major Business
- 9.20.3 Teledyne e2v Waveguide Probe Product and Services

9.20.4 Teledyne e2v Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.20.5 Teledyne e2v Recent Developments/Updates

9.20.6 Teledyne e2v Competitive Strengths & Weaknesses

9.21 Synergy Microwave Corporation

9.21.1 Synergy Microwave Corporation Details

9.21.2 Synergy Microwave Corporation Major Business

9.21.3 Synergy Microwave Corporation Waveguide Probe Product and Services

9.21.4 Synergy Microwave Corporation Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.21.5 Synergy Microwave Corporation Recent Developments/Updates

9.21.6 Synergy Microwave Corporation Competitive Strengths & Weaknesses

9.22 Microwaves & Optics (MWO)

9.22.1 Microwaves & Optics (MWO) Details

9.22.2 Microwaves & Optics (MWO) Major Business

9.22.3 Microwaves & Optics (MWO) Waveguide Probe Product and Services

9.22.4 Microwaves & Optics (MWO) Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.22.5 Microwaves & Optics (MWO) Recent Developments/Updates

9.22.6 Microwaves & Optics (MWO) Competitive Strengths & Weaknesses

9.23 AEL Society Ltd.

9.23.1 AEL Society Ltd. Details

9.23.2 AEL Society Ltd. Major Business

9.23.3 AEL Society Ltd. Waveguide Probe Product and Services

9.23.4 AEL Society Ltd. Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.23.5 AEL Society Ltd. Recent Developments/Updates

9.23.6 AEL Society Ltd. Competitive Strengths & Weaknesses

9.24 QMC Instruments Ltd.

9.24.1 QMC Instruments Ltd. Details

9.24.2 QMC Instruments Ltd. Major Business

9.24.3 QMC Instruments Ltd. Waveguide Probe Product and Services

9.24.4 QMC Instruments Ltd. Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.24.5 QMC Instruments Ltd. Recent Developments/Updates

9.24.6 QMC Instruments Ltd. Competitive Strengths & Weaknesses

9.25 United Monolithic Semiconductors

9.25.1 United Monolithic Semiconductors Details

9.25.2 United Monolithic Semiconductors Major Business

- 9.25.3 United Monolithic Semiconductors Waveguide Probe Product and Services
- 9.25.4 United Monolithic Semiconductors Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.25.5 United Monolithic Semiconductors Recent Developments/Updates
- 9.25.6 United Monolithic Semiconductors Competitive Strengths & Weaknesses
- 9.26 Analogue Microelectronics GmbH
 - 9.26.1 Analogue Microelectronics GmbH Details
 - 9.26.2 Analogue Microelectronics GmbH Major Business
 - 9.26.3 Analogue Microelectronics GmbH Waveguide Probe Product and Services
 - 9.26.4 Analogue Microelectronics GmbH Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.26.5 Analogue Microelectronics GmbH Recent Developments/Updates
 - 9.26.6 Analogue Microelectronics GmbH Competitive Strengths & Weaknesses
- 9.27 Rohde & Schwarz
 - 9.27.1 Rohde & Schwarz Details
 - 9.27.2 Rohde & Schwarz Major Business
 - 9.27.3 Rohde & Schwarz Waveguide Probe Product and Services
 - 9.27.4 Rohde & Schwarz Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.27.5 Rohde & Schwarz Recent Developments/Updates
 - 9.27.6 Rohde & Schwarz Competitive Strengths & Weaknesses
- 9.28 Keysight Technologies
 - 9.28.1 Keysight Technologies Details
 - 9.28.2 Keysight Technologies Major Business
 - 9.28.3 Keysight Technologies Waveguide Probe Product and Services
 - 9.28.4 Keysight Technologies Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.28.5 Keysight Technologies Recent Developments/Updates
 - 9.28.6 Keysight Technologies Competitive Strengths & Weaknesses
- 9.29 Anritsu Corporation
 - 9.29.1 Anritsu Corporation Details
 - 9.29.2 Anritsu Corporation Major Business
 - 9.29.3 Anritsu Corporation Waveguide Probe Product and Services
 - 9.29.4 Anritsu Corporation Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.29.5 Anritsu Corporation Recent Developments/Updates
 - 9.29.6 Anritsu Corporation Competitive Strengths & Weaknesses
- 9.30 National Instruments
 - 9.30.1 National Instruments Details

- 9.30.2 National Instruments Major Business
- 9.30.3 National Instruments Waveguide Probe Product and Services
- 9.30.4 National Instruments Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.30.5 National Instruments Recent Developments/Updates
- 9.30.6 National Instruments Competitive Strengths & Weaknesses
- 9.31 Tektronix
 - 9.31.1 Tektronix Details
 - 9.31.2 Tektronix Major Business
 - 9.31.3 Tektronix Waveguide Probe Product and Services
 - 9.31.4 Tektronix Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.31.5 Tektronix Recent Developments/Updates
 - 9.31.6 Tektronix Competitive Strengths & Weaknesses
- 9.32 Qorvo
 - 9.32.1 Qorvo Details
 - 9.32.2 Qorvo Major Business
 - 9.32.3 Qorvo Waveguide Probe Product and Services
 - 9.32.4 Qorvo Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.32.5 Qorvo Recent Developments/Updates
 - 9.32.6 Qorvo Competitive Strengths & Weaknesses
- 9.33 Analog Devices
 - 9.33.1 Analog Devices Details
 - 9.33.2 Analog Devices Major Business
 - 9.33.3 Analog Devices Waveguide Probe Product and Services
 - 9.33.4 Analog Devices Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.33.5 Analog Devices Recent Developments/Updates
 - 9.33.6 Analog Devices Competitive Strengths & Weaknesses
- 9.34 Broadcom Inc.
 - 9.34.1 Broadcom Inc. Details
 - 9.34.2 Broadcom Inc. Major Business
 - 9.34.3 Broadcom Inc. Waveguide Probe Product and Services
 - 9.34.4 Broadcom Inc. Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.34.5 Broadcom Inc. Recent Developments/Updates
 - 9.34.6 Broadcom Inc. Competitive Strengths & Weaknesses
- 9.35 Skyworks Solutions

- 9.35.1 Skyworks Solutions Details
- 9.35.2 Skyworks Solutions Major Business
- 9.35.3 Skyworks Solutions Waveguide Probe Product and Services
- 9.35.4 Skyworks Solutions Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.35.5 Skyworks Solutions Recent Developments/Updates
- 9.35.6 Skyworks Solutions Competitive Strengths & Weaknesses
- 9.36 Infineon Technologies AG
 - 9.36.1 Infineon Technologies AG Details
 - 9.36.2 Infineon Technologies AG Major Business
 - 9.36.3 Infineon Technologies AG Waveguide Probe Product and Services
 - 9.36.4 Infineon Technologies AG Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.36.5 Infineon Technologies AG Recent Developments/Updates
 - 9.36.6 Infineon Technologies AG Competitive Strengths & Weaknesses
- 9.37 TE Connectivity
 - 9.37.1 TE Connectivity Details
 - 9.37.2 TE Connectivity Major Business
 - 9.37.3 TE Connectivity Waveguide Probe Product and Services
 - 9.37.4 TE Connectivity Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.37.5 TE Connectivity Recent Developments/Updates
 - 9.37.6 TE Connectivity Competitive Strengths & Weaknesses
- 9.38 Amphenol RF
 - 9.38.1 Amphenol RF Details
 - 9.38.2 Amphenol RF Major Business
 - 9.38.3 Amphenol RF Waveguide Probe Product and Services
 - 9.38.4 Amphenol RF Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.38.5 Amphenol RF Recent Developments/Updates
 - 9.38.6 Amphenol RF Competitive Strengths & Weaknesses
- 9.39 HUBER+SUHNER AG
 - 9.39.1 HUBER+SUHNER AG Details
 - 9.39.2 HUBER+SUHNER AG Major Business
 - 9.39.3 HUBER+SUHNER AG Waveguide Probe Product and Services
 - 9.39.4 HUBER+SUHNER AG Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.39.5 HUBER+SUHNER AG Recent Developments/Updates
 - 9.39.6 HUBER+SUHNER AG Competitive Strengths & Weaknesses

9.40 Rosenberger

9.40.1 Rosenberger Details

9.40.2 Rosenberger Major Business

9.40.3 Rosenberger Waveguide Probe Product and Services

9.40.4 Rosenberger Waveguide Probe Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.40.5 Rosenberger Recent Developments/Updates

9.40.6 Rosenberger Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Waveguide Probe Industry Chain

10.2 Waveguide Probe Upstream Analysis

10.2.1 Waveguide Probe Core Raw Materials

10.2.2 Main Manufacturers of Waveguide Probe Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Waveguide Probe Production Mode

10.6 Waveguide Probe Procurement Model

10.7 Waveguide Probe Industry Sales Model and Sales Channels

10.7.1 Waveguide Probe Sales Model

10.7.2 Waveguide Probe Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Waveguide Probe Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Waveguide Probe Production Value by Region (2021-2026) & (USD Million)

Table 3. World Waveguide Probe Production Value by Region (2027-2032) & (USD Million)

Table 4. World Waveguide Probe Production Value Market Share by Region (2021-2026)

Table 5. World Waveguide Probe Production Value Market Share by Region (2027-2032)

Table 6. World Waveguide Probe Production by Region (2021-2026) & (K Units)

Table 7. World Waveguide Probe Production by Region (2027-2032) & (K Units)

Table 8. World Waveguide Probe Production Market Share by Region (2021-2026)

Table 9. World Waveguide Probe Production Market Share by Region (2027-2032)

Table 10. World Waveguide Probe Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Waveguide Probe Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Waveguide Probe Major Market Trends

Table 13. World Waveguide Probe Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Waveguide Probe Consumption by Region (2021-2026) & (K Units)

Table 15. World Waveguide Probe Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Waveguide Probe Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Waveguide Probe Producers in 2025

Table 18. World Waveguide Probe Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Waveguide Probe Producers in 2025

Table 20. World Waveguide Probe Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Waveguide Probe Company Evaluation Quadrant

Table 22. World Waveguide Probe Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Waveguide Probe Production Site of Key Manufacturer

Table 24. Waveguide Probe Market: Company Product Type Footprint

Table 25. Waveguide Probe Market: Company Product Application Footprint

- Table 26. Waveguide Probe Competitive Factors
- Table 27. Waveguide Probe New Entrant and Capacity Expansion Plans
- Table 28. Waveguide Probe Mergers & Acquisitions Activity
- Table 29. United States VS China Waveguide Probe Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 30. United States VS China Waveguide Probe Production Comparison, (2021 & 2025 & 2032) & (K Units)
- Table 31. United States VS China Waveguide Probe Consumption Comparison, (2021 & 2025 & 2032) & (K Units)
- Table 32. United States Based Waveguide Probe Manufacturers, Headquarters and Production Site (States, Country)
- Table 33. United States Based Manufacturers Waveguide Probe Production Value, (2021-2026) & (USD Million)
- Table 34. United States Based Manufacturers Waveguide Probe Production Value Market Share (2021-2026)
- Table 35. United States Based Manufacturers Waveguide Probe Production (2021-2026) & (K Units)
- Table 36. United States Based Manufacturers Waveguide Probe Production Market Share (2021-2026)
- Table 37. China Based Waveguide Probe Manufacturers, Headquarters and Production Site (Province, Country)
- Table 38. China Based Manufacturers Waveguide Probe Production Value, (2021-2026) & (USD Million)
- Table 39. China Based Manufacturers Waveguide Probe Production Value Market Share (2021-2026)
- Table 40. China Based Manufacturers Waveguide Probe Production, (2021-2026) & (K Units)
- Table 41. China Based Manufacturers Waveguide Probe Production Market Share (2021-2026)
- Table 42. Rest of World Based Waveguide Probe Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers Waveguide Probe Production Value, (2021-2026) & (USD Million)
- Table 44. Rest of World Based Manufacturers Waveguide Probe Production Value Market Share (2021-2026)
- Table 45. Rest of World Based Manufacturers Waveguide Probe Production, (2021-2026) & (K Units)
- Table 46. Rest of World Based Manufacturers Waveguide Probe Production Market Share (2021-2026)

Table 47. World Waveguide Probe Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Waveguide Probe Production by Type (2021-2026) & (K Units)

Table 49. World Waveguide Probe Production by Type (2027-2032) & (K Units)

Table 50. World Waveguide Probe Production Value by Type (2021-2026) & (USD Million)

Table 51. World Waveguide Probe Production Value by Type (2027-2032) & (USD Million)

Table 52. World Waveguide Probe Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Waveguide Probe Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Waveguide Probe Production Value by Frequency Range Band, (USD Million), 2021 & 2025 & 2032

Table 55. World Waveguide Probe Production by Frequency Range Band (2021-2026) & (K Units)

Table 56. World Waveguide Probe Production by Frequency Range Band (2027-2032) & (K Units)

Table 57. World Waveguide Probe Production Value by Frequency Range Band (2021-2026) & (USD Million)

Table 58. World Waveguide Probe Production Value by Frequency Range Band (2027-2032) & (USD Million)

Table 59. World Waveguide Probe Average Price by Frequency Range Band (2021-2026) & (US\$/Unit)

Table 60. World Waveguide Probe Average Price by Frequency Range Band (2027-2032) & (US\$/Unit)

Table 61. World Waveguide Probe Production Value by Mechanical Configuration, (USD Million), 2021 & 2025 & 2032

Table 62. World Waveguide Probe Production by Mechanical Configuration (2021-2026) & (K Units)

Table 63. World Waveguide Probe Production by Mechanical Configuration (2027-2032) & (K Units)

Table 64. World Waveguide Probe Production Value by Mechanical Configuration (2021-2026) & (USD Million)

Table 65. World Waveguide Probe Production Value by Mechanical Configuration (2027-2032) & (USD Million)

Table 66. World Waveguide Probe Average Price by Mechanical Configuration (2021-2026) & (US\$/Unit)

Table 67. World Waveguide Probe Average Price by Mechanical Configuration (2027-2032) & (US\$/Unit)

Table 68. World Waveguide Probe Production Value by Application, (USD Million), 2021

& 2025 & 2032

Table 69. World Waveguide Probe Production by Application (2021-2026) & (K Units)

Table 70. World Waveguide Probe Production by Application (2027-2032) & (K Units)

Table 71. World Waveguide Probe Production Value by Application (2021-2026) & (USD Million)

Table 72. World Waveguide Probe Production Value by Application (2027-2032) & (USD Million)

Table 73. World Waveguide Probe Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Waveguide Probe Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Heilongjiang Yidian Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 76. Heilongjiang Yidian Technology Co., Ltd. Major Business

Table 77. Heilongjiang Yidian Technology Co., Ltd. Waveguide Probe Product and Services

Table 78. Heilongjiang Yidian Technology Co., Ltd. Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Heilongjiang Yidian Technology Co., Ltd. Recent Developments/Updates

Table 80. Heilongjiang Yidian Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 81. Xi'an Elite Electronics Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 82. Xi'an Elite Electronics Co., Ltd. Major Business

Table 83. Xi'an Elite Electronics Co., Ltd. Waveguide Probe Product and Services

Table 84. Xi'an Elite Electronics Co., Ltd. Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Xi'an Elite Electronics Co., Ltd. Recent Developments/Updates

Table 86. Xi'an Elite Electronics Co., Ltd. Competitive Strengths & Weaknesses

Table 87. Beijing Bokaida Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 88. Beijing Bokaida Technology Co., Ltd. Major Business

Table 89. Beijing Bokaida Technology Co., Ltd. Waveguide Probe Product and Services

Table 90. Beijing Bokaida Technology Co., Ltd. Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Beijing Bokaida Technology Co., Ltd. Recent Developments/Updates

Table 92. Beijing Bokaida Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 93. Beijing Yerson Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 94. Beijing Yerson Technology Co., Ltd. Major Business

Table 95. Beijing Yerson Technology Co., Ltd. Waveguide Probe Product and Services

Table 96. Beijing Yerson Technology Co., Ltd. Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Beijing Yerson Technology Co., Ltd. Recent Developments/Updates

Table 98. Beijing Yerson Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 99. Universal Microwave Technology, Inc. (UMT) Basic Information, Manufacturing Base and Competitors

Table 100. Universal Microwave Technology, Inc. (UMT) Major Business

Table 101. Universal Microwave Technology, Inc. (UMT) Waveguide Probe Product and Services

Table 102. Universal Microwave Technology, Inc. (UMT) Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Universal Microwave Technology, Inc. (UMT) Recent Developments/Updates

Table 104. Universal Microwave Technology, Inc. (UMT) Competitive Strengths & Weaknesses

Table 105. NSI?MI Technologies Basic Information, Manufacturing Base and Competitors

Table 106. NSI?MI Technologies Major Business

Table 107. NSI?MI Technologies Waveguide Probe Product and Services

Table 108. NSI?MI Technologies Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. NSI?MI Technologies Recent Developments/Updates

Table 110. NSI?MI Technologies Competitive Strengths & Weaknesses

Table 111. Flann Microwave Ltd. Basic Information, Manufacturing Base and Competitors

Table 112. Flann Microwave Ltd. Major Business

Table 113. Flann Microwave Ltd. Waveguide Probe Product and Services

Table 114. Flann Microwave Ltd. Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Flann Microwave Ltd. Recent Developments/Updates

Table 116. Flann Microwave Ltd. Competitive Strengths & Weaknesses

Table 117. QuinStar Technology Inc. Basic Information, Manufacturing Base and Competitors

Table 118. QuinStar Technology Inc. Major Business

Table 119. QuinStar Technology Inc. Waveguide Probe Product and Services

Table 120. QuinStar Technology Inc. Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. QuinStar Technology Inc. Recent Developments/Updates

Table 122. QuinStar Technology Inc. Competitive Strengths & Weaknesses

Table 123. Pasternack Enterprises, Inc. Basic Information, Manufacturing Base and Competitors

Table 124. Pasternack Enterprises, Inc. Major Business

Table 125. Pasternack Enterprises, Inc. Waveguide Probe Product and Services

Table 126. Pasternack Enterprises, Inc. Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Pasternack Enterprises, Inc. Recent Developments/Updates

Table 128. Pasternack Enterprises, Inc. Competitive Strengths & Weaknesses

Table 129. Southwest Microwave, Inc. Basic Information, Manufacturing Base and Competitors

Table 130. Southwest Microwave, Inc. Major Business

Table 131. Southwest Microwave, Inc. Waveguide Probe Product and Services

Table 132. Southwest Microwave, Inc. Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Southwest Microwave, Inc. Recent Developments/Updates

Table 134. Southwest Microwave, Inc. Competitive Strengths & Weaknesses

Table 135. L?TEQ Microwave Technology Basic Information, Manufacturing Base and Competitors

Table 136. L?TEQ Microwave Technology Major Business

Table 137. L?TEQ Microwave Technology Waveguide Probe Product and Services

Table 138. L?TEQ Microwave Technology Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. L?TEQ Microwave Technology Recent Developments/Updates

Table 140. L?TEQ Microwave Technology Competitive Strengths & Weaknesses

Table 141. HI Microwave (HIMIC) Basic Information, Manufacturing Base and Competitors

- Table 142. HI Microwave (HIMIC) Major Business
- Table 143. HI Microwave (HIMIC) Waveguide Probe Product and Services
- Table 144. HI Microwave (HIMIC) Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. HI Microwave (HIMIC) Recent Developments/Updates
- Table 146. HI Microwave (HIMIC) Competitive Strengths & Weaknesses
- Table 147. Narda?MITEQ Basic Information, Manufacturing Base and Competitors
- Table 148. Narda?MITEQ Major Business
- Table 149. Narda?MITEQ Waveguide Probe Product and Services
- Table 150. Narda?MITEQ Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. Narda?MITEQ Recent Developments/Updates
- Table 152. Narda?MITEQ Competitive Strengths & Weaknesses
- Table 153. Virginia Diodes, Inc. Basic Information, Manufacturing Base and Competitors
- Table 154. Virginia Diodes, Inc. Major Business
- Table 155. Virginia Diodes, Inc. Waveguide Probe Product and Services
- Table 156. Virginia Diodes, Inc. Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 157. Virginia Diodes, Inc. Recent Developments/Updates
- Table 158. Virginia Diodes, Inc. Competitive Strengths & Weaknesses
- Table 159. Millitech, Inc. Basic Information, Manufacturing Base and Competitors
- Table 160. Millitech, Inc. Major Business
- Table 161. Millitech, Inc. Waveguide Probe Product and Services
- Table 162. Millitech, Inc. Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 163. Millitech, Inc. Recent Developments/Updates
- Table 164. Millitech, Inc. Competitive Strengths & Weaknesses
- Table 165. AEM, Inc. Basic Information, Manufacturing Base and Competitors
- Table 166. AEM, Inc. Major Business
- Table 167. AEM, Inc. Waveguide Probe Product and Services
- Table 168. AEM, Inc. Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 169. AEM, Inc. Recent Developments/Updates
- Table 170. AEM, Inc. Competitive Strengths & Weaknesses
- Table 171. Cobham Microwave/Colt Basic Information, Manufacturing Base and Competitors
- Table 172. Cobham Microwave/Colt Major Business

- Table 173. Cobham Microwave/Colt Waveguide Probe Product and Services
- Table 174. Cobham Microwave/Colt Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 175. Cobham Microwave/Colt Recent Developments/Updates
- Table 176. Cobham Microwave/Colt Competitive Strengths & Weaknesses
- Table 177. OML Inc. Basic Information, Manufacturing Base and Competitors
- Table 178. OML Inc. Major Business
- Table 179. OML Inc. Waveguide Probe Product and Services
- Table 180. OML Inc. Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 181. OML Inc. Recent Developments/Updates
- Table 182. OML Inc. Competitive Strengths & Weaknesses
- Table 183. K&L Microwave Basic Information, Manufacturing Base and Competitors
- Table 184. K&L Microwave Major Business
- Table 185. K&L Microwave Waveguide Probe Product and Services
- Table 186. K&L Microwave Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 187. K&L Microwave Recent Developments/Updates
- Table 188. K&L Microwave Competitive Strengths & Weaknesses
- Table 189. Teledyne e2v Basic Information, Manufacturing Base and Competitors
- Table 190. Teledyne e2v Major Business
- Table 191. Teledyne e2v Waveguide Probe Product and Services
- Table 192. Teledyne e2v Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 193. Teledyne e2v Recent Developments/Updates
- Table 194. Teledyne e2v Competitive Strengths & Weaknesses
- Table 195. Synergy Microwave Corporation Basic Information, Manufacturing Base and Competitors
- Table 196. Synergy Microwave Corporation Major Business
- Table 197. Synergy Microwave Corporation Waveguide Probe Product and Services
- Table 198. Synergy Microwave Corporation Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 199. Synergy Microwave Corporation Recent Developments/Updates
- Table 200. Synergy Microwave Corporation Competitive Strengths & Weaknesses
- Table 201. Microwaves & Optics (MWO) Basic Information, Manufacturing Base and Competitors
- Table 202. Microwaves & Optics (MWO) Major Business

Table 203. Microwaves & Optics (MWO) Waveguide Probe Product and Services

Table 204. Microwaves & Optics (MWO) Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 205. Microwaves & Optics (MWO) Recent Developments/Updates

Table 206. Microwaves & Optics (MWO) Competitive Strengths & Weaknesses

Table 207. AEL Society Ltd. Basic Information, Manufacturing Base and Competitors

Table 208. AEL Society Ltd. Major Business

Table 209. AEL Society Ltd. Waveguide Probe Product and Services

Table 210. AEL Society Ltd. Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 211. AEL Society Ltd. Recent Developments/Updates

Table 212. AEL Society Ltd. Competitive Strengths & Weaknesses

Table 213. QMC Instruments Ltd. Basic Information, Manufacturing Base and Competitors

Table 214. QMC Instruments Ltd. Major Business

Table 215. QMC Instruments Ltd. Waveguide Probe Product and Services

Table 216. QMC Instruments Ltd. Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 217. QMC Instruments Ltd. Recent Developments/Updates

Table 218. QMC Instruments Ltd. Competitive Strengths & Weaknesses

Table 219. United Monolithic Semiconductors Basic Information, Manufacturing Base and Competitors

Table 220. United Monolithic Semiconductors Major Business

Table 221. United Monolithic Semiconductors Waveguide Probe Product and Services

Table 222. United Monolithic Semiconductors Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 223. United Monolithic Semiconductors Recent Developments/Updates

Table 224. United Monolithic Semiconductors Competitive Strengths & Weaknesses

Table 225. Analogue Microelectronics GmbH Basic Information, Manufacturing Base and Competitors

Table 226. Analogue Microelectronics GmbH Major Business

Table 227. Analogue Microelectronics GmbH Waveguide Probe Product and Services

Table 228. Analogue Microelectronics GmbH Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 229. Analogue Microelectronics GmbH Recent Developments/Updates

- Table 230. Analogue Microelectronics GmbH Competitive Strengths & Weaknesses
- Table 231. Rohde & Schwarz Basic Information, Manufacturing Base and Competitors
- Table 232. Rohde & Schwarz Major Business
- Table 233. Rohde & Schwarz Waveguide Probe Product and Services
- Table 234. Rohde & Schwarz Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 235. Rohde & Schwarz Recent Developments/Updates
- Table 236. Rohde & Schwarz Competitive Strengths & Weaknesses
- Table 237. Keysight Technologies Basic Information, Manufacturing Base and Competitors
- Table 238. Keysight Technologies Major Business
- Table 239. Keysight Technologies Waveguide Probe Product and Services
- Table 240. Keysight Technologies Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 241. Keysight Technologies Recent Developments/Updates
- Table 242. Keysight Technologies Competitive Strengths & Weaknesses
- Table 243. Anritsu Corporation Basic Information, Manufacturing Base and Competitors
- Table 244. Anritsu Corporation Major Business
- Table 245. Anritsu Corporation Waveguide Probe Product and Services
- Table 246. Anritsu Corporation Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 247. Anritsu Corporation Recent Developments/Updates
- Table 248. Anritsu Corporation Competitive Strengths & Weaknesses
- Table 249. National Instruments Basic Information, Manufacturing Base and Competitors
- Table 250. National Instruments Major Business
- Table 251. National Instruments Waveguide Probe Product and Services
- Table 252. National Instruments Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 253. National Instruments Recent Developments/Updates
- Table 254. National Instruments Competitive Strengths & Weaknesses
- Table 255. Tektronix Basic Information, Manufacturing Base and Competitors
- Table 256. Tektronix Major Business
- Table 257. Tektronix Waveguide Probe Product and Services
- Table 258. Tektronix Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 259. Tektronix Recent Developments/Updates
- Table 260. Tektronix Competitive Strengths & Weaknesses
- Table 261. Qorvo Basic Information, Manufacturing Base and Competitors
- Table 262. Qorvo Major Business
- Table 263. Qorvo Waveguide Probe Product and Services
- Table 264. Qorvo Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 265. Qorvo Recent Developments/Updates
- Table 266. Qorvo Competitive Strengths & Weaknesses
- Table 267. Analog Devices Basic Information, Manufacturing Base and Competitors
- Table 268. Analog Devices Major Business
- Table 269. Analog Devices Waveguide Probe Product and Services
- Table 270. Analog Devices Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 271. Analog Devices Recent Developments/Updates
- Table 272. Analog Devices Competitive Strengths & Weaknesses
- Table 273. Broadcom Inc. Basic Information, Manufacturing Base and Competitors
- Table 274. Broadcom Inc. Major Business
- Table 275. Broadcom Inc. Waveguide Probe Product and Services
- Table 276. Broadcom Inc. Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 277. Broadcom Inc. Recent Developments/Updates
- Table 278. Broadcom Inc. Competitive Strengths & Weaknesses
- Table 279. Skyworks Solutions Basic Information, Manufacturing Base and Competitors
- Table 280. Skyworks Solutions Major Business
- Table 281. Skyworks Solutions Waveguide Probe Product and Services
- Table 282. Skyworks Solutions Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 283. Skyworks Solutions Recent Developments/Updates
- Table 284. Skyworks Solutions Competitive Strengths & Weaknesses
- Table 285. Infineon Technologies AG Basic Information, Manufacturing Base and Competitors
- Table 286. Infineon Technologies AG Major Business
- Table 287. Infineon Technologies AG Waveguide Probe Product and Services
- Table 288. Infineon Technologies AG Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 289. Infineon Technologies AG Recent Developments/Updates

- Table 290. Infineon Technologies AG Competitive Strengths & Weaknesses
- Table 291. TE Connectivity Basic Information, Manufacturing Base and Competitors
- Table 292. TE Connectivity Major Business
- Table 293. TE Connectivity Waveguide Probe Product and Services
- Table 294. TE Connectivity Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 295. TE Connectivity Recent Developments/Updates
- Table 296. TE Connectivity Competitive Strengths & Weaknesses
- Table 297. Amphenol RF Basic Information, Manufacturing Base and Competitors
- Table 298. Amphenol RF Major Business
- Table 299. Amphenol RF Waveguide Probe Product and Services
- Table 300. Amphenol RF Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 301. Amphenol RF Recent Developments/Updates
- Table 302. Amphenol RF Competitive Strengths & Weaknesses
- Table 303. HUBER+SUHNER AG Basic Information, Manufacturing Base and Competitors
- Table 304. HUBER+SUHNER AG Major Business
- Table 305. HUBER+SUHNER AG Waveguide Probe Product and Services
- Table 306. HUBER+SUHNER AG Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 307. HUBER+SUHNER AG Recent Developments/Updates
- Table 308. HUBER+SUHNER AG Competitive Strengths & Weaknesses
- Table 309. Rosenberger Basic Information, Manufacturing Base and Competitors
- Table 310. Rosenberger Major Business
- Table 311. Rosenberger Waveguide Probe Product and Services
- Table 312. Rosenberger Waveguide Probe Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 313. Rosenberger Recent Developments/Updates
- Table 314. Rosenberger Competitive Strengths & Weaknesses
- Table 315. Global Key Players of Waveguide Probe Upstream (Raw Materials)
- Table 316. Global Waveguide Probe Typical Customers
- Table 317. Waveguide Probe Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Waveguide Probe Picture

Figure 2. World Waveguide Probe Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Waveguide Probe Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Waveguide Probe Production (2021-2032) & (K Units)

Figure 5. World Waveguide Probe Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Waveguide Probe Production Value Market Share by Region (2021-2032)

Figure 7. World Waveguide Probe Production Market Share by Region (2021-2032)

Figure 8. North America Waveguide Probe Production (2021-2032) & (K Units)

Figure 9. Europe Waveguide Probe Production (2021-2032) & (K Units)

Figure 10. China Waveguide Probe Production (2021-2032) & (K Units)

Figure 11. Japan Waveguide Probe Production (2021-2032) & (K Units)

Figure 12. South Korea Waveguide Probe Production (2021-2032) & (K Units)

Figure 13. China Taiwan Waveguide Probe Production (2021-2032) & (K Units)

Figure 14. Waveguide Probe Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Waveguide Probe Consumption (2021-2032) & (K Units)

Figure 17. World Waveguide Probe Consumption Market Share by Region (2021-2032)

Figure 18. United States Waveguide Probe Consumption (2021-2032) & (K Units)

Figure 19. China Waveguide Probe Consumption (2021-2032) & (K Units)

Figure 20. Europe Waveguide Probe Consumption (2021-2032) & (K Units)

Figure 21. Japan Waveguide Probe Consumption (2021-2032) & (K Units)

Figure 22. South Korea Waveguide Probe Consumption (2021-2032) & (K Units)

Figure 23. ASEAN Waveguide Probe Consumption (2021-2032) & (K Units)

Figure 24. India Waveguide Probe Consumption (2021-2032) & (K Units)

Figure 25. Producer Shipments of Waveguide Probe by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Waveguide Probe Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Waveguide Probe Markets in 2025

Figure 28. United States VS China: Waveguide Probe Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Waveguide Probe Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Waveguide Probe Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Waveguide Probe Production Market Share 2025

Figure 32. China Based Manufacturers Waveguide Probe Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Waveguide Probe Production Market Share 2025

Figure 34. World Waveguide Probe Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Waveguide Probe Production Value Market Share by Type in 2025

Figure 36. Rectangle

Figure 37. Circular

Figure 38. Other

Figure 39. World Waveguide Probe Production Market Share by Type (2021-2032)

Figure 40. World Waveguide Probe Production Value Market Share by Type (2021-2032)

Figure 41. World Waveguide Probe Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World Waveguide Probe Production Value by Frequency Range Band, (USD Million), 2021 & 2025 & 2032

Figure 43. World Waveguide Probe Production Value Market Share by Frequency Range Band in 2025

Figure 44. Low Frequency Probes

Figure 45. Mid Frequency Probes

Figure 46. High Frequency Probes

Figure 47. Millimeter/Microwave Band Probes

Figure 48. World Waveguide Probe Production Market Share by Frequency Range Band (2021-2032)

Figure 49. World Waveguide Probe Production Value Market Share by Frequency Range Band (2021-2032)

Figure 50. World Waveguide Probe Average Price by Frequency Range Band (2021-2032) & (US\$/Unit)

Figure 51. World Waveguide Probe Production Value by Mechanical Configuration, (USD Million), 2021 & 2025 & 2032

Figure 52. World Waveguide Probe Production Value Market Share by Mechanical Configuration in 2025

Figure 53. Rigid Body Probes

Figure 54. Flexible/Articulated Probes

Figure 55. Micro?Miniature Probes

Figure 56. World Waveguide Probe Production Market Share by Mechanical Configuration (2021-2032)

Figure 57. World Waveguide Probe Production Value Market Share by Mechanical Configuration (2021-2032)

Figure 58. World Waveguide Probe Average Price by Mechanical Configuration (2021-2032) & (US\$/Unit)

Figure 59. World Waveguide Probe Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 60. World Waveguide Probe Production Value Market Share by Application in 2025

Figure 61. Acoustics

Figure 62. Optics

Figure 63. Other

Figure 64. World Waveguide Probe Production Market Share by Application (2021-2032)

Figure 65. World Waveguide Probe Production Value Market Share by Application (2021-2032)

Figure 66. World Waveguide Probe Average Price by Application (2021-2032) & (US\$/Unit)

Figure 67. Waveguide Probe Industry Chain

Figure 68. Waveguide Probe Procurement Model

Figure 69. Waveguide Probe Sales Model

Figure 70. Waveguide Probe Sales Channels, Direct Sales, and Distribution

Figure 71. Methodology

Figure 72. Research Process and Data Source

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