

Global Semiconductor Microwave Devices Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Semiconductor Microwave Devices market size is expected to reach \$ 1575 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

In 2025, global semiconductor microwave device production reached approximately 10934 k units, the average price is 80 usd/unit. Semiconductor microwave devices refer to electronic components that operate in the range of 300MHz to 300GHz and utilize the electrical properties of semiconductor materials to generate, amplify, control, or process microwave signals.

Market Concentration and Major Players:

Internationally, the semiconductor microwave device market is highly concentrated, primarily in developed countries in Europe and America. Large manufacturers include MACOM and Vishay. Domestically, the semiconductor microwave device market still has significant room for growth.

Manufacturing Processes and Market Trends:

Semiconductor microwave device manufacturing relies on compound semiconductor materials. High-frequency transistor structures and monolithic microwave integrated circuits are constructed through precision processes such as epitaxial growth, photolithography, etching, ion implantation, and metallization. System-in-package (SiP) and heterogeneous integration technologies are combined to optimize high-frequency parasitic parameters and enhance thermal management capabilities.

The market is driven by applications such as 5G and 6G communications, military phased-array radar, low-orbit satellite internet, and millimeter-wave radar for intelligent driving. The industry focus continues to shift towards wide-bandgap semiconductors such as gallium nitride (GaN) to improve power density and energy efficiency. Product forms are shifting from discrete devices to highly integrated RF front-end modules and multi-functional chipsets. Greater emphasis is placed on supply chain self-sufficiency, domestic substitution of materials and equipment, and process iteration and cost control to adapt to higher millimeter-wave and terahertz frequency bands.

This report studies the global Semiconductor Microwave Devices production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Semiconductor Microwave Devices total production and demand, 2021-2032, (K Units)

Global Semiconductor Microwave Devices total production value, 2021-2032, (USD Million)

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

Global Semiconductor Microwave Devices consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Semiconductor Microwave Devices domestic production, consumption, key domestic manufacturers and share

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

Global Semiconductor Microwave Devices production by Specification, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Semiconductor Microwave Devices production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Semiconductor Microwave Devices 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 MACOM (USA), Vishay (USA), Infineon (Germany), Broadcom (USA), NXP Semiconductors (Netherlands), Onsemi (USA), Qorvo (USA), Renesas (Japan), Microchip Technology (USA), Toshiba Electronic Devices & Storage (Japan), 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 Semiconductor Microwave Devices 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 Specification, 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 Semiconductor Microwave Devices Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Microwave Devices Market, Segmentation by Specification:

Diodes

Transistors

IC

Global Semiconductor Microwave Devices Market, Segmentation by Materials:

Si

SiGe

GaAs

GaN

Others

Global Semiconductor Microwave Devices Market, Segmentation by Active:

Active Devices

Passive Device

Global Semiconductor Microwave Devices Market, Segmentation by Application:

RF Switch

Photodetector

High Voltage Rectifier

Attenuators

RF Limiters

Others

Companies Profiled:

MACOM (USA)

Vishay (USA)

Infineon (Germany)

Broadcom (USA)

NXP Semiconductors (Netherlands)

Onsemi (USA)

Qorvo (USA)

Renesas (Japan)

Microchip Technology (USA)

Toshiba Electronic Devices & Storage (Japan)

STMicroelectronics (Switzerland)

Ampleon (Netherlands)

Analog Devices (USA)

Skyworks Solutions (USA)

pSemi (USA)

Murata Manufacturing (Japan)

Mitsubishi Electric (Japan)

WIN Semiconductors (Taiwan)

United Monolithic Semiconductors (France)

CML Micro (UK)

Key Questions Answered:

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

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