

Waveguide Filters Market - Global Outlook and Forecast 2022-2028

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Abstracts

A waveguide filter is an electronic filter that is constructed with waveguide technology. Waveguides are hollow metal tubes inside which an electromagnetic wave may be transmitted. Filters are devices used to allow signals at some frequencies to pass (the passband), while others are rejected (the stopband). Filters are a basic component of electronic engineering designs and have numerous applications. These include selection of signals and limitation of noise. Waveguide filters are most useful in the microwave band of frequencies, where they are a convenient size and have low loss. Examples of microwave filter use are found in satellite communications, telephone networks, and television broadcasting.

Waveguide filters were developed during World War II to meet the needs of radar and electronic countermeasures, but afterwards soon found civilian applications such as use in microwave links. Much of post-war development was concerned with reducing the bulk and weight of these filters, first by using new analysis techniques that led to elimination of unnecessary components, then by innovations such as dual-mode cavities and novel materials such as ceramic resonators.

A particular feature of waveguide filter design concerns the mode of transmission. Systems based on pairs of conducting wires and similar technologies have only one mode of transmission. In waveguide systems, any number of modes are possible. This can be both a disadvantage, as spurious modes frequently cause problems, and an advantage, as a dual-mode design can be much smaller than the equivalent waveguide single mode design. The chief advantages of waveguide filters over other technologies are their ability to handle high power and their low loss. The chief disadvantages are their bulk and cost when compared with technologies such as microstrip filters.

This report contains market size and forecasts of Waveguide Filters in global, including the following market information:

Global Waveguide Filters Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Waveguide Filters Market Sales, 2017-2022, 2023-2028, (K Units)

Global top five Waveguide Filters companies in 2021 (%)

The global Waveguide Filters market was valued at million in 2021 and is projected to reach US\$ million by 2028, at a CAGR of % during the forecast period.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

Band Pass Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Waveguide Filters include SAGE Millimeter, Ducommun, Fairview Microwave, Mercury Systems, Microwave Filter Company, Pasternack Enterprises Inc, RLC Electronics, Smiths Interconnect and Teledyne Microwave Solutions and etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Waveguide Filters manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Waveguide Filters Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Waveguide Filters Market Segment Percentages, by Type, 2021 (%)

Band Pass

High Pass

Low Pass

Notched

Global Waveguide Filters Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Waveguide Filters Market Segment Percentages, by Application, 2021 (%)

WR15/WG25/R620

WR12/WG26/R740

WR28/WG22/R320

WR10/WG27/R900

Others

Global Waveguide Filters Market, By Region and Country, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Waveguide Filters Market Segment Percentages, By Region and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Waveguide Filters revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies Waveguide Filters revenues share in global market, 2021 (%)

Key companies Waveguide Filters sales in global market, 2017-2022 (Estimated), (K Units)

Key companies Waveguide Filters sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

SAGE Millimeter

Ducommun

Fairview Microwave

Mercury Systems

Microwave Filter Company

Pasternack Enterprises Inc

RLC Electronics

Smiths Interconnect

Teledyne Microwave Solutions

Virginia Diodes

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