

Waveguide Components and Assemblies Market by Sector, Spectrum, Component (Adapters, Couplers, Loads and Filters, Isolators and Circulators, Duplexers, Phase Shifters, Power Combiners, Pressure Windows) and Region - Global Forecast to 2027

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Abstracts

The Waveguide Components and Assemblies Market is projected to grow from USD 1.3 billion in 2022 to USD 1.6 billion by 2027, at a CAGR of 4.8%. The market exhibits lucrative growth potential during the forecast period primarily due to the advancements in radar technologies, increased demand for microwave devices in electronic warfare systems and increasing launches of satellites and space exploration missions. Nevertheless, the requirement for new-generation warfare systems and demand for high-rate data transmission, to open several growth opportunities for waveguide components and assemblies' manufacturers during the forecast period.

The COVID-19 pandemic showed non-uniform effects across the world in terms of absolute infection numbers and their trajectory. Nonetheless, the pandemic is likely to negatively affect conflict dynamics in short to medium term through its detrimental and asymmetric economic impact on middle and particularly low-income countries. This acts upon partly because of local restrictions, and falling demands for key exports from high-income countries. R&D expenditure declined, and technological advancement was stuttered during the pandemic. Further, imposition of lockdown in major countries impacted the entire global supply chain that resulted in a widespread and acute shortage of microchips and other essential components required for waveguide assemblies. This led to increasing costs and timelines for critical projects.

The isolators and circulators segment is projected to grow at the highest CAGR during the forecast period

Based on component, the waveguide components and assemblies market has been segmented into adapters, couplers, loads and filters, isolators and circulators, duplexers, phase shifters, power combiners and pressure windows. The isolators and circulators segment of the waveguide components and assemblies market is anticipated to grow with the highest CAGR during the forecast period. An isolator is a 2-port or 3-port device that transfers microwave energy in only one direction. Due to internal behavior, the propagation is allowed only in one direction and blocked in the other direction. The non-reciprocity noticed in these devices usually arises from the interaction between the propagating wave and the material, which can differ with respect to the direction of propagation. It is used as a shield for the equipment on the input side from the effects of the conditions on the output. An isolator is used to prevent a microwave source from being detuned by a mismatched load. Circulators are 3-port or 4-port waveguide components that use ferrite technology to direct electromagnetic energy to a specific port based on the direction of wave propagation. A 3-port circulator can be transformed into an isolator by placing a load on the port at which reflected energy is directed. In several industrial applications, isolators and circulators are used to prevent the magnetron from overheating.

North America is expected to account for the largest share in 2022

The waveguide components and assemblies market has been studied for North America, Europe, Asia Pacific, and Rest of the World. North America is estimated to account for the largest share of the waveguide components and assemblies market in 2022. The region has a large presence of prominent technology players focusing on innovations. Organizations in this region were the early adopters of advanced technologies. Technological advancements, heavy investments in national security, and collaboration of governments with private companies are working in favor of the market in North America. The rapid growth of aerospace industry is driving the growth of waveguide components and assemblies market in the region.

The break-up of profile of primary participants in the waveguide components and assemblies market:

By Company Type: Tier 1 – 49%, Tier 2 – 37%, and Tier 3 – 14%

By Designation: C Level – 55%, Director Level – 27%, and Others – 18%

By Region: North America – 27%, Europe – 55%, Asia Pacific –9%, Rest of the World-9%

Major players operating in the waveguide components and assemblies market Quantic Electronics (US), Millimeter Wave Products Inc. (US), Cobham Limited (UK), Ducommun Incorporated (US), and ETL Systems (UK), among others.

Research Coverage:

This research report categorizes the waveguide components and assemblies market basis of sector (aviation and defense, and space), spectrum (radio, microwave, EO/IR, ultraviolet, x-ray and gamma-ray), and component (adapters, couplers, loads and filters, isolators and circulators, duplexers, phase shifters, power combiners and pressure windows) in these segments have been mapped across major regions, namely, North America, Europe, Asia Pacific, and Rest of the World. The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the waveguide components and assemblies market. A detailed analysis of the key industry players has been done to provide insights into their business overviews; solutions and services; key strategies; Contracts, partnerships, agreements new product & service launches, mergers and acquisitions; and recent developments associated with the weather forecasting services market. Competitive analysis of upcoming startups in the waveguide components and assemblies market ecosystem is covered in this report.

Key benefits of buying this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall waveguide components and assemblies market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and to plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

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