

Global RF Isolator Market Size study & Forecast, by Type (Drop-In Isolator, Microstrip Isolator, Co-Axial Isolator, Surface Mount Isolator), by Application (800 to 900 MHz, 1950 to 2000 MHz), by End User (Electronics, IT, Telecommunications, Military, Healthcare, Other) and Regional Analysis, 2023-2030

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Abstracts

Global RF Isolator Market is valued approximately USD 0.7 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 5.9% over the forecast period 2023-2030. Radio frequency (RF) isolators are electrical devices that are used to isolate or separate RF signals in a circuit. An RF isolator's main function is to isolate or attenuate signals travelling in the opposite way while allowing RF signals to flow in just one direction. To reduce undesired signal reflections, enhance signal quality, and guard delicate circuit components from high-frequency power damage, RF isolators are frequently employed in a variety of RF applications, such as RF amplifiers, mixers, and antennas. Due to the requirement for greater bandwidths and quicker data transmission rates, the development of 5G technology is driving the demand for RF isolators. Small satellite deployment is growing, which increases the need for portable RF isolators that can offer delicate RF systems in space the appropriate amount of isolation and safety also the demand for wireless and cellular communication systems, the expansion of data centres, and the trend towards miniaturization in electronic equipment are all factors contributing to the growth of the RF isolators market. Additionally, improvements in the semiconductor sector will open the door for improved RF isolators and the market is driven by expansion in the power sector and rising waveguide circulator usage across several sectors.

Owing to the requirement for greater bandwidths and quicker data transmission rates,



the development of 5G technology is driving the demand for RF isolators. According to Omdia in 2022, 455 million global 5G connections will be installed in 2022. Overall, such data show a 14 percent sequential quarterly increase from 922 million in the third quarter of 2022 to 1.05 billion in the fourth quarter of 2022. Global 5G connections are expected to increase further in 2023, topping 2 billion by the end of 2027 and reaching 5.9 billion by the end of 2027. Additionally, the increased deployment of small satellites for communication and remote sensing applications gives a potential for the expansion of RF isolators. However, fluctuation in price of raw material of RF Isolator stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global RF Isolator Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to increasing demand for wireless communication, advancements in telecommunications infrastructure, expansion of aerospace and defense sectors, and growth in the medical industry. However, Asia Pacific is expected to grow significantly during the forecast period, owing the advancements in rf and microwave technologies, growing industrialization and automation, and expanding telecommunication infrastructure.

Major market player included in this report are:

ADMOTECH Inc.

Atlantic Microwave

Bird Technologies

Cernex Inc

DiTom Microwave

ECHO Microwave

JQL Technologies Corporation

Kete Microwave Electronics Co., Ltd.

Narda-MITEQ,

Quantic Corry

Recent Developments in the Market:

In March 2023, Quantic Electronics and its affiliates participated in and exhibited at the SATELLITE 2023 Conference and Exhibition in Washington, DC. They offered resistor technology, RF passive and filter solutions, and other RF & Microwave, power, sensor, and magnetic solutions for mission-critical applications. Quantic had the chance to showcase their portfolio and network with influential business people at the event. During the exhibition, Quantic's notable offers included fully integrated beamformers and butler matrices, RF Microwave filters and switched-filter solutions, passive RF &



Microwave components and subsystems, and proven thin-film resistor technologies. In January 2022, Narda-MITEQ acquired Intelligent RF Solutions (IRF), a world leader in the creation, engineering, and manufacturing of RF and microwave systems and subsystems for mission-critical defence and intelligence applications. With a higher focus on creating system and subsystem capabilities for SIGINT/ELINT/EW applications, which are significant development areas for the firm, this acquisition significantly expands Narda-MITEQ's product line.

Global RF Isolator Market Report Scope:

Historical Data - 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape,

Growth factors, and Trends

Segments Covered – Type, Application, End User, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:
Drop-In Isolator
Microstrip Isolator
Co-Axial Isolator
Surface Mount Isolator
By Application:
800 to 900 MHz
1950 to 2000 MHz

By End User:



Electronics

Military Healthcare

By Region:

Other

Telecommunication

IT

North America
U.S.
Canada
Europe
UK
Germany
France
Spain
Italy
ROE
Asia Pacific
China
India
Japan
Australia
South Korea
Roapac
Latin America
Brazil
Mexico
Middle East & Africa
Saudi Arabia
South Africa

Rest of Middle East & Africa



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