

Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Research Report 2024, Forecast to 2032

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Abstracts

Report Overview

Gallium nitride (GaN) is a binary III/V direct bandgap semiconductor. Because GaN transistors can operate at much higher temperatures and work at much higher voltages than gallium arsenide (GaAs) transistors, they make ideal power amplifiers at microwave frequencies. GaN on GaN substrate have homo-substrate as the base whereas the templates have the GaN film over the foreign substrates.

The global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) market size was estimated at USD 863 million in 2023 and is projected to reach USD 1433.45 million by 2032, exhibiting a CAGR of 5.80% during the forecast period.

North America Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) market size was estimated at USD 247.79 million in 2023, at a CAGR of 4.97% during the forecast period of 2024 through 2032.

This report provides a deep insight into the global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business

organization. The report structure also focuses on the competitive landscape of the Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) market in any manner.

Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

Key Company

Cree Inc.

Mitsubishi Chemical

Kyocera Corporation

Plessey Semiconductors

IQE Ipc

MonoCrystal

Sumco Corp

Sumitomo Electric Industries

Ltd

Hitachi Metals Ltd

DowCorning

Market Segmentation (by Type)

4H-SiC Substrate

6H-SiC Substrate

GaN-on-Si Substrate

Market Segmentation (by Application)

Consumer Electronics

Communication

Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market

Overview of the regional outlook of the Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market:

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the

Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region from the consumer side and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication), their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region during the forecast period.

Chapter 12 provides a quantitative analysis of the market size and development

potential of each market segment during the forecast period.

Chapter 13 is the main points and conclusions of the report.

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication)

1.2 Key Market Segments

1.2.1 Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Segment by Type

1.2.2 Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 GALLIUM NITRIDE (GAN) HI-FREQUENCY SUBSTRATE (FOR 5G COMMUNICATION) MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Size (M USD) Estimates and Forecasts (2019-2032)

2.1.2 Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Estimates and Forecasts (2019-2032)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 GALLIUM NITRIDE (GAN) HI-FREQUENCY SUBSTRATE (FOR 5G COMMUNICATION) MARKET COMPETITIVE LANDSCAPE

3.1 Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales by Manufacturers (2019-2024)

3.2 Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Revenue Market Share by Manufacturers (2019-2024)

3.3 Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.4 Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication)

Average Price by Manufacturers (2019-2024)

3.5 Manufacturers Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Sites, Area Served, Product Type

3.6 Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Competitive Situation and Trends

3.6.1 Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Concentration Rate

3.6.2 Global 5 and 10 Largest Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Players Market Share by Revenue

3.6.3 Mergers & Acquisitions, Expansion

4 GALLIUM NITRIDE (GAN) HI-FREQUENCY SUBSTRATE (FOR 5G COMMUNACATION) INDUSTRY CHAIN ANALYSIS

4.1 Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF GALLIUM NITRIDE (GAN) HI-FREQUENCY SUBSTRATE (FOR 5G COMMUNACATION) MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Market Restraints

5.5 Industry News

5.5.1 New Product Developments

5.5.2 Mergers & Acquisitions

5.5.3 Expansions

5.5.4 Collaboration/Supply Contracts

5.6 Industry Policies

6 GALLIUM NITRIDE (GAN) HI-FREQUENCY SUBSTRATE (FOR 5G COMMUNACATION) MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales

Market Share by Type (2019-2024)

6.3 Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication)

Market Size Market Share by Type (2019-2024)

6.4 Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Price by Type (2019-2024)

7 GALLIUM NITRIDE (GAN) HI-FREQUENCY SUBSTRATE (FOR 5G COMMUNICATION) MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication)

Market Sales by Application (2019-2024)

7.3 Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication)

Market Size (M USD) by Application (2019-2024)

7.4 Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Growth Rate by Application (2019-2024)

8 GALLIUM NITRIDE (GAN) HI-FREQUENCY SUBSTRATE (FOR 5G COMMUNICATION) MARKET CONSUMPTION BY REGION

8.1 Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales by Region

8.1.1 Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales by Region

8.1.2 Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Market Share by Region

8.2 North America

8.2.1 North America Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales by Country

8.2.2 U.S.

8.2.3 Canada

8.2.4 Mexico

8.3 Europe

8.3.1 Europe Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales by Country

8.3.2 Germany

8.3.3 France

8.3.4 U.K.

8.3.5 Italy

8.3.6 Russia

8.4 Asia Pacific

8.4.1 Asia Pacific Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G
Communication) Sales by Region

8.4.2 China

8.4.3 Japan

8.4.4 South Korea

8.4.5 India

8.4.6 Southeast Asia

8.5 South America

8.5.1 South America Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G
Communication) Sales by Country

8.5.2 Brazil

8.5.3 Argentina

8.5.4 Columbia

8.6 Middle East and Africa

8.6.1 Middle East and Africa Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G
Communication) Sales by Region

8.6.2 Saudi Arabia

8.6.3 UAE

8.6.4 Egypt

8.6.5 Nigeria

8.6.6 South Africa

9 GALLIUM NITRIDE (GAN) HI-FREQUENCY SUBSTRATE (FOR 5G COMMUNICATION) MARKET PRODUCTION BY REGION

9.1 Global Production of Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G
Communication) by Region (2019-2024)

9.2 Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication)
Revenue Market Share by Region (2019-2024)

9.3 Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication)
Production, Revenue, Price and Gross Margin (2019-2024)

9.4 North America Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G
Communication) Production

9.4.1 North America Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G
Communication) Production Growth Rate (2019-2024)

9.4.2 North America Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G
Communication) Production, Revenue, Price and Gross Margin (2019-2024)

9.5 Europe Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Production

9.5.1 Europe Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Production Growth Rate (2019-2024)

9.5.2 Europe Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Production, Revenue, Price and Gross Margin (2019-2024)

9.6 Japan Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Production (2019-2024)

9.6.1 Japan Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Production Growth Rate (2019-2024)

9.6.2 Japan Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Production, Revenue, Price and Gross Margin (2019-2024)

9.7 China Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Production (2019-2024)

9.7.1 China Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Production Growth Rate (2019-2024)

9.7.2 China Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Production, Revenue, Price and Gross Margin (2019-2024)

10 KEY COMPANIES PROFILE

10.1 Cree Inc.

10.1.1 Cree Inc. Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Basic Information

10.1.2 Cree Inc. Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Product Overview

10.1.3 Cree Inc. Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Product Market Performance

10.1.4 Cree Inc. Business Overview

10.1.5 Cree Inc. Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) SWOT Analysis

10.1.6 Cree Inc. Recent Developments

10.2 Mitsubishi Chemical

10.2.1 Mitsubishi Chemical Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Basic Information

10.2.2 Mitsubishi Chemical Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Product Overview

10.2.3 Mitsubishi Chemical Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Product Market Performance

- 10.2.4 Mitsubishi Chemical Business Overview
- 10.2.5 Mitsubishi Chemical Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) SWOT Analysis
- 10.2.6 Mitsubishi Chemical Recent Developments
- 10.3 Kyocera Corporation
 - 10.3.1 Kyocera Corporation Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Basic Information
 - 10.3.2 Kyocera Corporation Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Product Overview
 - 10.3.3 Kyocera Corporation Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Product Market Performance
 - 10.3.4 Kyocera Corporation Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) SWOT Analysis
 - 10.3.5 Kyocera Corporation Business Overview
 - 10.3.6 Kyocera Corporation Recent Developments
- 10.4 Plessey Semiconductors
 - 10.4.1 Plessey Semiconductors Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Basic Information
 - 10.4.2 Plessey Semiconductors Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Product Overview
 - 10.4.3 Plessey Semiconductors Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Product Market Performance
 - 10.4.4 Plessey Semiconductors Business Overview
 - 10.4.5 Plessey Semiconductors Recent Developments
- 10.5 IQE Ipc
 - 10.5.1 IQE Ipc Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Basic Information
 - 10.5.2 IQE Ipc Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Product Overview
 - 10.5.3 IQE Ipc Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Product Market Performance
 - 10.5.4 IQE Ipc Business Overview
 - 10.5.5 IQE Ipc Recent Developments
- 10.6 MonoCrystal
 - 10.6.1 MonoCrystal Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Basic Information
 - 10.6.2 MonoCrystal Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Product Overview
 - 10.6.3 MonoCrystal Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G

Communacation) Product Market Performance

10.6.4 MonoCrystal Business Overview

10.6.5 MonoCrystal Recent Developments

10.7 Sumco Corp

10.7.1 Sumco Corp Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Basic Information

10.7.2 Sumco Corp Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Product Overview

10.7.3 Sumco Corp Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Product Market Performance

10.7.4 Sumco Corp Business Overview

10.7.5 Sumco Corp Recent Developments

10.8 Sumitomo Electric Industries

10.8.1 Sumitomo Electric Industries Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Basic Information

10.8.2 Sumitomo Electric Industries Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Product Overview

10.8.3 Sumitomo Electric Industries Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Product Market Performance

10.8.4 Sumitomo Electric Industries Business Overview

10.8.5 Sumitomo Electric Industries Recent Developments

10.9 Ltd

10.9.1 Ltd Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Basic Information

10.9.2 Ltd Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Product Overview

10.9.3 Ltd Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Product Market Performance

10.9.4 Ltd Business Overview

10.9.5 Ltd Recent Developments

10.10 Hitachi Metals Ltd

10.10.1 Hitachi Metals Ltd Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Basic Information

10.10.2 Hitachi Metals Ltd Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Product Overview

10.10.3 Hitachi Metals Ltd Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Product Market Performance

10.10.4 Hitachi Metals Ltd Business Overview

10.10.5 Hitachi Metals Ltd Recent Developments

10.11 DowCorning

10.11.1 DowCorning Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Basic Information

10.11.2 DowCorning Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Product Overview

10.11.3 DowCorning Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Product Market Performance

10.11.4 DowCorning Business Overview

10.11.5 DowCorning Recent Developments

11 GALLIUM NITRIDE (GAN) HI-FREQUENCY SUBSTRATE (FOR 5G COMMUNACATION) MARKET FORECAST BY REGION

11.1 Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Size Forecast

11.2 Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Size Forecast by Country

11.2.3 Asia Pacific Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Size Forecast by Region

11.2.4 South America Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Consumption of Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2025-2032)

12.1 Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Forecast by Type (2025-2032)

12.1.1 Global Forecasted Sales of Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) by Type (2025-2032)

12.1.2 Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Size Forecast by Type (2025-2032)

12.1.3 Global Forecasted Price of Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) by Type (2025-2032)

12.2 Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Forecast by Application (2025-2032)

12.2.1 Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication)
Sales (K MT) Forecast by Application

12.2.2 Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication)
Market Size (M USD) Forecast by Application (2025-2032)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

- Table 1. Introduction of the Type
- Table 2. Introduction of the Application
- Table 3. Market Size (M USD) Segment Executive Summary
- Table 4. Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Size Comparison by Region (M USD)
- Table 5. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales (K MT) by Manufacturers (2019-2024)
- Table 6. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Market Share by Manufacturers (2019-2024)
- Table 7. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Revenue (M USD) by Manufacturers (2019-2024)
- Table 8. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Revenue Share by Manufacturers (2019-2024)
- Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) as of 2022)
- Table 10. Global Market Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Average Price (USD/MT) of Key Manufacturers (2019-2024)
- Table 11. Manufacturers Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Sites and Area Served
- Table 12. Manufacturers Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Product Type
- Table 13. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 14. Mergers & Acquisitions, Expansion Plans
- Table 15. Industry Chain Map of Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication)
- Table 16. Market Overview of Key Raw Materials
- Table 17. Midstream Market Analysis
- Table 18. Downstream Customer Analysis
- Table 19. Key Development Trends
- Table 20. Driving Factors
- Table 21. Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Challenges
- Table 22. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales by Type (K MT)

Table 23. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Size by Type (M USD)

Table 24. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales (K MT) by Type (2019-2024)

Table 25. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Market Share by Type (2019-2024)

Table 26. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Size (M USD) by Type (2019-2024)

Table 27. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Size Share by Type (2019-2024)

Table 28. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Price (USD/MT) by Type (2019-2024)

Table 29. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales (K MT) by Application

Table 30. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Size by Application

Table 31. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales by Application (2019-2024) & (K MT)

Table 32. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Market Share by Application (2019-2024)

Table 33. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales by Application (2019-2024) & (M USD)

Table 34. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Share by Application (2019-2024)

Table 35. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Growth Rate by Application (2019-2024)

Table 36. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales by Region (2019-2024) & (K MT)

Table 37. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Market Share by Region (2019-2024)

Table 38. North America Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales by Country (2019-2024) & (K MT)

Table 39. Europe Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales by Country (2019-2024) & (K MT)

Table 40. Asia Pacific Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales by Region (2019-2024) & (K MT)

Table 41. South America Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales by Country (2019-2024) & (K MT)

Table 42. Middle East and Africa Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G

Communication) Sales by Region (2019-2024) & (K MT)

Table 43. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Production (K MT) by Region (2019-2024)

Table 44. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Revenue (US\$ Million) by Region (2019-2024)

Table 45. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Revenue Market Share by Region (2019-2024)

Table 46. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Production (K MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2019-2024)

Table 47. North America Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Production (K MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2019-2024)

Table 48. Europe Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Production (K MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2019-2024)

Table 49. Japan Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Production (K MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2019-2024)

Table 50. China Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Production (K MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2019-2024)

Table 51. Cree Inc. Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Basic Information

Table 52. Cree Inc. Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Product Overview

Table 53. Cree Inc. Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2019-2024)

Table 54. Cree Inc. Business Overview

Table 55. Cree Inc. Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) SWOT Analysis

Table 56. Cree Inc. Recent Developments

Table 57. Mitsubishi Chemical Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Basic Information

Table 58. Mitsubishi Chemical Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Product Overview

Table 59. Mitsubishi Chemical Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin

(2019-2024)

Table 60. Mitsubishi Chemical Business Overview

Table 61. Mitsubishi Chemical Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) SWOT Analysis

Table 62. Mitsubishi Chemical Recent Developments

Table 63. Kyocera Corporation Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Basic Information

Table 64. Kyocera Corporation Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Product Overview

Table 65. Kyocera Corporation Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2019-2024)

Table 66. Kyocera Corporation Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) SWOT Analysis

Table 67. Kyocera Corporation Business Overview

Table 68. Kyocera Corporation Recent Developments

Table 69. Plessey Semiconductors Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Basic Information

Table 70. Plessey Semiconductors Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Product Overview

Table 71. Plessey Semiconductors Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2019-2024)

Table 72. Plessey Semiconductors Business Overview

Table 73. Plessey Semiconductors Recent Developments

Table 74. IQE Ipc Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Basic Information

Table 75. IQE Ipc Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Product Overview

Table 76. IQE Ipc Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2019-2024)

Table 77. IQE Ipc Business Overview

Table 78. IQE Ipc Recent Developments

Table 79. MonoCrystal Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Basic Information

Table 80. MonoCrystal Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Product Overview

Table 81. MonoCrystal Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G

Communacation) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2019-2024)

Table 82. MonoCrystal Business Overview

Table 83. MonoCrystal Recent Developments

Table 84. Sumco Corp Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Basic Information

Table 85. Sumco Corp Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Product Overview

Table 86. Sumco Corp Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2019-2024)

Table 87. Sumco Corp Business Overview

Table 88. Sumco Corp Recent Developments

Table 89. Sumitomo Electric Industries Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Basic Information

Table 90. Sumitomo Electric Industries Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Product Overview

Table 91. Sumitomo Electric Industries Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2019-2024)

Table 92. Sumitomo Electric Industries Business Overview

Table 93. Sumitomo Electric Industries Recent Developments

Table 94. Ltd Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Basic Information

Table 95. Ltd Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Product Overview

Table 96. Ltd Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2019-2024)

Table 97. Ltd Business Overview

Table 98. Ltd Recent Developments

Table 99. Hitachi Metals Ltd Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Basic Information

Table 100. Hitachi Metals Ltd Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Product Overview

Table 101. Hitachi Metals Ltd Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2019-2024)

Table 102. Hitachi Metals Ltd Business Overview

Table 103. Hitachi Metals Ltd Recent Developments

Table 104. DowCorning Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Basic Information

Table 105. DowCorning Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Product Overview

Table 106. DowCorning Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2019-2024)

Table 107. DowCorning Business Overview

Table 108. DowCorning Recent Developments

Table 109. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Forecast by Region (2025-2032) & (K MT)

Table 110. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Size Forecast by Region (2025-2032) & (M USD)

Table 111. North America Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Forecast by Country (2025-2032) & (K MT)

Table 112. North America Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Size Forecast by Country (2025-2032) & (M USD)

Table 113. Europe Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Forecast by Country (2025-2032) & (K MT)

Table 114. Europe Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Size Forecast by Country (2025-2032) & (M USD)

Table 115. Asia Pacific Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Forecast by Region (2025-2032) & (K MT)

Table 116. Asia Pacific Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Size Forecast by Region (2025-2032) & (M USD)

Table 117. South America Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Forecast by Country (2025-2032) & (K MT)

Table 118. South America Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Size Forecast by Country (2025-2032) & (M USD)

Table 119. Middle East and Africa Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Consumption Forecast by Country (2025-2032) & (Units)

Table 120. Middle East and Africa Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Size Forecast by Country (2025-2032) & (M USD)

Table 121. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Forecast by Type (2025-2032) & (K MT)

Table 122. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Size Forecast by Type (2025-2032) & (M USD)

Table 123. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Price Forecast by Type (2025-2032) & (USD/MT)

Table 124. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G
Communication) Sales (K MT) Forecast by Application (2025-2032)

Table 125. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G
Communication) Market Size Forecast by Application (2025-2032) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication)
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Size (M USD), 2019-2032
- Figure 5. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Size (M USD) (2019-2032)
- Figure 6. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales (K MT) & (2019-2032)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Size by Country (M USD)
- Figure 11. Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Share by Manufacturers in 2023
- Figure 12. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Revenue Share by Manufacturers in 2023
- Figure 13. Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2023
- Figure 14. Global Market Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Average Price (USD/MT) of Key Manufacturers in 2023
- Figure 15. The Global 5 and 10 Largest Players: Market Share by Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Revenue in 2023
- Figure 16. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 17. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Share by Type
- Figure 18. Sales Market Share of Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) by Type (2019-2024)
- Figure 19. Sales Market Share of Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) by Type in 2023
- Figure 20. Market Size Share of Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) by Type (2019-2024)
- Figure 21. Market Size Market Share of Gallium Nitride (GaN) Hi-Frequency Substrate

(for 5G Communication) by Type in 2023

Figure 22. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 23. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Share by Application

Figure 24. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Market Share by Application (2019-2024)

Figure 25. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Market Share by Application in 2023

Figure 26. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Share by Application (2019-2024)

Figure 27. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Share by Application in 2023

Figure 28. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Growth Rate by Application (2019-2024)

Figure 29. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Market Share by Region (2019-2024)

Figure 30. North America Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales and Growth Rate (2019-2024) & (K MT)

Figure 31. North America Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Market Share by Country in 2023

Figure 32. U.S. Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales and Growth Rate (2019-2024) & (K MT)

Figure 33. Canada Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales (K MT) and Growth Rate (2019-2024)

Figure 34. Mexico Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales (Units) and Growth Rate (2019-2024)

Figure 35. Europe Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales and Growth Rate (2019-2024) & (K MT)

Figure 36. Europe Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Market Share by Country in 2023

Figure 37. Germany Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales and Growth Rate (2019-2024) & (K MT)

Figure 38. France Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales and Growth Rate (2019-2024) & (K MT)

Figure 39. U.K. Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales and Growth Rate (2019-2024) & (K MT)

Figure 40. Italy Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales and Growth Rate (2019-2024) & (K MT)

Figure 41. Russia Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G

Communacation) Sales and Growth Rate (2019-2024) & (K MT)

Figure 42. Asia Pacific Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Sales and Growth Rate (K MT)

Figure 43. Asia Pacific Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Sales Market Share by Region in 2023

Figure 44. China Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Sales and Growth Rate (2019-2024) & (K MT)

Figure 45. Japan Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Sales and Growth Rate (2019-2024) & (K MT)

Figure 46. South Korea Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Sales and Growth Rate (2019-2024) & (K MT)

Figure 47. India Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Sales and Growth Rate (2019-2024) & (K MT)

Figure 48. Southeast Asia Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Sales and Growth Rate (2019-2024) & (K MT)

Figure 49. South America Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Sales and Growth Rate (K MT)

Figure 50. South America Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Sales Market Share by Country in 2023

Figure 51. Brazil Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Sales and Growth Rate (2019-2024) & (K MT)

Figure 52. Argentina Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Sales and Growth Rate (2019-2024) & (K MT)

Figure 53. Columbia Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Sales and Growth Rate (2019-2024) & (K MT)

Figure 54. Middle East and Africa Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Sales and Growth Rate (K MT)

Figure 55. Middle East and Africa Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Sales Market Share by Region in 2023

Figure 56. Saudi Arabia Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Sales and Growth Rate (2019-2024) & (K MT)

Figure 57. UAE Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Sales and Growth Rate (2019-2024) & (K MT)

Figure 58. Egypt Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Sales and Growth Rate (2019-2024) & (K MT)

Figure 59. Nigeria Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Sales and Growth Rate (2019-2024) & (K MT)

Figure 60. South Africa Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communacation) Sales and Growth Rate (2019-2024) & (K MT)

- Figure 61. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Production Market Share by Region (2019-2024)
- Figure 62. North America Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Production (K MT) Growth Rate (2019-2024)
- Figure 63. Europe Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Production (K MT) Growth Rate (2019-2024)
- Figure 64. Japan Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Production (K MT) Growth Rate (2019-2024)
- Figure 65. China Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Production (K MT) Growth Rate (2019-2024)
- Figure 66. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Forecast by Volume (2019-2032) & (K MT)
- Figure 67. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Size Forecast by Value (2019-2032) & (M USD)
- Figure 68. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Market Share Forecast by Type (2025-2032)
- Figure 69. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Share Forecast by Type (2025-2032)
- Figure 70. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Sales Forecast by Application (2025-2032)
- Figure 71. Global Gallium Nitride (GaN) Hi-Frequency Substrate (for 5G Communication) Market Share Forecast by Application (2025-2032)

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