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Global LEO Radiation Resistant IC Market Growth 2025-2031

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Abstracts

The global LEO Radiation Resistant IC market size is predicted to grow from US$ 220 million in 2025 to US$ 366 million in 2031; it is expected to grow at a CAGR of 8.8% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

LEO radiation-resistant ICs (Low-Earth Orbit Radiation Resistant Integrated Circuits) are integrated circuits designed specifically for low-Earth orbit (LEO) spacecraft, which can maintain stable performance in the space radiation environment. Through special design and process, these chips can resist the total ionizing dose (TID) effect and single event effect (SEE) caused by high-energy particles (such as protons and neutrons), ensuring long-term and reliable operation of spacecraft in the harsh space environment.

The lower launch cost has stimulated the deployment of satellite constellations. These satellite constellations are mainly used to improve Internet access and earth observation missions. Low-orbit satellites (LEO) have the most development advantages. Compared with high-orbit satellites (HEO) and medium-orbit satellites (MEO), low-orbit satellites have the characteristics of 'low latency, low radiation, and low cost'. Signal coverage is not restricted by terrain such as mountains, seas, and deserts. It can complement mobile communications 5G to form an integrated air-space network coverage. Low-orbit satellites need to use a variety of analog IC products including power management (including BMS and isolation), RF front-end, signal conversion (ADC/DAC), interface, etc., and they need to have radiation resistance. Satellite orbits and spectrum resources are exclusive and time-sensitive, and there is an obvious 'first-

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mover advantage' in the construction of satellite constellations. SpaceX has applied for a large number of low-orbit resources (42,000) and has entered the stage of accelerating the deployment of star clusters. At present, the domestic satellite Internet has a large gap with the industrial development progress of foreign countries. my country has reported 864 satellite orbit resources to the ITU, which is expected to be launched in batches in the next few years. It is expected that the development of domestic satellite Internet will accelerate.

LP Information, Inc. (LPI) ' newest research report, the “LEO Radiation Resistant IC Industry Forecast” looks at past sales and reviews total world LEO Radiation Resistant IC sales in 2024, providing a comprehensive analysis by region and market sector of projected LEO Radiation Resistant IC sales for 2025 through 2031. With LEO Radiation Resistant IC sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world LEO Radiation Resistant IC industry.

This Insight Report provides a comprehensive analysis of the global LEO Radiation Resistant IC landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on LEO Radiation Resistant IC portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global LEO Radiation Resistant IC market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for LEO Radiation Resistant IC and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global LEO Radiation Resistant IC.

This report presents a comprehensive overview, market shares, and growth opportunities of LEO Radiation Resistant IC market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Ceramic Packaging

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Plastic Packaging

Segmentation by Application:

Satellite

Manned Spacecraft

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

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France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Texas Instruments

STMicroelectronics

Analog Devices

Renesas

AMD (Xilinx)

Microchip

Honeywell Aerospace

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Beijing Aerospace Shenzhou Intelligent Equipment Technology Co., Ltd

BAE Systems

Lattice Semiconductor

Zhuhai Orbita Control Engineering Co., Ltd

Great Microwave Technology Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global LEO Radiation Resistant IC market?
What factors are driving LEO Radiation Resistant IC market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do LEO Radiation Resistant IC market opportunities vary by end market size?
How does LEO Radiation Resistant IC break out by Type, by Application?

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Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global LEO Radiation Resistant IC Annual Sales 2020-2031
  2.1.2 World Current & Future Analysis for LEO Radiation Resistant IC by Geographic Region, 2020, 2024 & 2031
  2.1.3 World Current & Future Analysis for LEO Radiation Resistant IC by Country/Region, 2020, 2024 & 2031
2.2 LEO Radiation Resistant IC Segment by Type
  2.2.1 Ceramic Packaging
  2.2.2 Plastic Packaging
2.3 LEO Radiation Resistant IC Sales by Type
  2.3.1 Global LEO Radiation Resistant IC Sales Market Share by Type (2020-2025)
  2.3.2 Global LEO Radiation Resistant IC Revenue and Market Share by Type (2020-2025)
  2.3.3 Global LEO Radiation Resistant IC Sale Price by Type (2020-2025)
2.4 LEO Radiation Resistant IC Segment by Application
  2.4.1 Satellite
  2.4.2 Manned Spacecraft
2.5 LEO Radiation Resistant IC Sales by Application
  2.5.1 Global LEO Radiation Resistant IC Sale Market Share by Application (2020-2025)
  2.5.2 Global LEO Radiation Resistant IC Revenue and Market Share by Application (2020-2025)
  2.5.3 Global LEO Radiation Resistant IC Sale Price by Application (2020-2025)

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3 GLOBAL BY COMPANY

3.1 Global LEO Radiation Resistant IC Breakdown Data by Company
3.1.1 Global LEO Radiation Resistant IC Annual Sales by Company (2020-2025)
3.1.2 Global LEO Radiation Resistant IC Sales Market Share by Company (2020-2025)
3.2 Global LEO Radiation Resistant IC Annual Revenue by Company (2020-2025)
3.2.1 Global LEO Radiation Resistant IC Revenue by Company (2020-2025)
3.2.2 Global LEO Radiation Resistant IC Revenue Market Share by Company (2020-2025)
3.3 Global LEO Radiation Resistant IC Sale Price by Company
3.4 Key Manufacturers LEO Radiation Resistant IC Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers LEO Radiation Resistant IC Product Location Distribution
3.4.2 Players LEO Radiation Resistant IC Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR LEO RADIATION RESISTANT IC BY GEOGRAPHIC REGION

4.1 World Historic LEO Radiation Resistant IC Market Size by Geographic Region (2020-2025)
4.1.1 Global LEO Radiation Resistant IC Annual Sales by Geographic Region (2020-2025)
4.1.2 Global LEO Radiation Resistant IC Annual Revenue by Geographic Region (2020-2025)
4.2 World Historic LEO Radiation Resistant IC Market Size by Country/Region (2020-2025)
4.2.1 Global LEO Radiation Resistant IC Annual Sales by Country/Region (2020-2025)
4.2.2 Global LEO Radiation Resistant IC Annual Revenue by Country/Region (2020-2025)
4.3 Americas LEO Radiation Resistant IC Sales Growth
4.4 APAC LEO Radiation Resistant IC Sales Growth
4.5 Europe LEO Radiation Resistant IC Sales Growth
4.6 Middle East & Africa LEO Radiation Resistant IC Sales Growth

+357 96 030922
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5 AMERICAS

5.1 Americas LEO Radiation Resistant IC Sales by Country
  5.1.1 Americas LEO Radiation Resistant IC Sales by Country (2020-2025)
  5.1.2 Americas LEO Radiation Resistant IC Revenue by Country (2020-2025)
5.2 Americas LEO Radiation Resistant IC Sales by Type (2020-2025)
5.3 Americas LEO Radiation Resistant IC Sales by Application (2020-2025)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC LEO Radiation Resistant IC Sales by Region
  6.1.1 APAC LEO Radiation Resistant IC Sales by Region (2020-2025)
  6.1.2 APAC LEO Radiation Resistant IC Revenue by Region (2020-2025)
6.2 APAC LEO Radiation Resistant IC Sales by Type (2020-2025)
6.3 APAC LEO Radiation Resistant IC Sales by Application (2020-2025)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

7 EUROPE

7.1 Europe LEO Radiation Resistant IC by Country
  7.1.1 Europe LEO Radiation Resistant IC Sales by Country (2020-2025)
  7.1.2 Europe LEO Radiation Resistant IC Revenue by Country (2020-2025)
7.2 Europe LEO Radiation Resistant IC Sales by Type (2020-2025)
7.3 Europe LEO Radiation Resistant IC Sales by Application (2020-2025)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy

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7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa LEO Radiation Resistant IC by Country
  8.1.1 Middle East & Africa LEO Radiation Resistant IC Sales by Country (2020-2025)
  8.1.2 Middle East & Africa LEO Radiation Resistant IC Revenue by Country (2020-2025)
8.2 Middle East & Africa LEO Radiation Resistant IC Sales by Type (2020-2025)
8.3 Middle East & Africa LEO Radiation Resistant IC Sales by Application (2020-2025)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of LEO Radiation Resistant IC
10.3 Manufacturing Process Analysis of LEO Radiation Resistant IC
10.4 Industry Chain Structure of LEO Radiation Resistant IC

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 LEO Radiation Resistant IC Distributors
11.3 LEO Radiation Resistant IC Customer

12 WORLD FORECAST REVIEW FOR LEO RADIATION RESISTANT IC BY GEOGRAPHIC REGION

+357 96 030922
info@marketpublishers.com

12.1 Global LEO Radiation Resistant IC Market Size Forecast by Region
12.1.1 Global LEO Radiation Resistant IC Forecast by Region (2026-2031)
12.1.2 Global LEO Radiation Resistant IC Annual Revenue Forecast by Region (2026-2031)
12.2 Americas Forecast by Country (2026-2031)
12.3 APAC Forecast by Region (2026-2031)
12.4 Europe Forecast by Country (2026-2031)
12.5 Middle East & Africa Forecast by Country (2026-2031)
12.6 Global LEO Radiation Resistant IC Forecast by Type (2026-2031)
12.7 Global LEO Radiation Resistant IC Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 Texas Instruments
13.1.1 Texas Instruments Company Information
13.1.2 Texas Instruments LEO Radiation Resistant IC Product Portfolios and Specifications
13.1.3 Texas Instruments LEO Radiation Resistant IC Sales, Revenue, Price and Gross Margin (2020-2025)
13.1.4 Texas Instruments Main Business Overview
13.1.5 Texas Instruments Latest Developments
13.2 STMicroelectronics
13.2.1 STMicroelectronics Company Information
13.2.2 STMicroelectronics LEO Radiation Resistant IC Product Portfolios and Specifications
13.2.3 STMicroelectronics LEO Radiation Resistant IC Sales, Revenue, Price and Gross Margin (2020-2025)
13.2.4 STMicroelectronics Main Business Overview
13.2.5 STMicroelectronics Latest Developments
13.3 Analog Devices
13.3.1 Analog Devices Company Information
13.3.2 Analog Devices LEO Radiation Resistant IC Product Portfolios and Specifications
13.3.3 Analog Devices LEO Radiation Resistant IC Sales, Revenue, Price and Gross Margin (2020-2025)
13.3.4 Analog Devices Main Business Overview
13.3.5 Analog Devices Latest Developments
13.4 Renesas

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13.4.1 Renesas Company Information
13.4.2 Renesas LEO Radiation Resistant IC Product Portfolios and Specifications
13.4.3 Renesas LEO Radiation Resistant IC Sales, Revenue, Price and Gross Margin (2020-2025)
13.4.4 Renesas Main Business Overview
13.4.5 Renesas Latest Developments
13.5 AMD (Xilinx)
13.5.1 AMD (Xilinx) Company Information
13.5.2 AMD (Xilinx) LEO Radiation Resistant IC Product Portfolios and Specifications
13.5.3 AMD (Xilinx) LEO Radiation Resistant IC Sales, Revenue, Price and Gross Margin (2020-2025)
13.5.4 AMD (Xilinx) Main Business Overview
13.5.5 AMD (Xilinx) Latest Developments
13.6 Microchip
13.6.1 Microchip Company Information
13.6.2 Microchip LEO Radiation Resistant IC Product Portfolios and Specifications
13.6.3 Microchip LEO Radiation Resistant IC Sales, Revenue, Price and Gross Margin (2020-2025)
13.6.4 Microchip Main Business Overview
13.6.5 Microchip Latest Developments
13.7 Honeywell Aerospace
13.7.1 Honeywell Aerospace Company Information
13.7.2 Honeywell Aerospace LEO Radiation Resistant IC Product Portfolios and Specifications
13.7.3 Honeywell Aerospace LEO Radiation Resistant IC Sales, Revenue, Price and Gross Margin (2020-2025)
13.7.4 Honeywell Aerospace Main Business Overview
13.7.5 Honeywell Aerospace Latest Developments
13.8 Beijing Aerospace Shenzhou Intelligent Equipment Technology Co., Ltd
13.8.1 Beijing Aerospace Shenzhou Intelligent Equipment Technology Co., Ltd Company Information
13.8.2 Beijing Aerospace Shenzhou Intelligent Equipment Technology Co., Ltd LEO Radiation Resistant IC Product Portfolios and Specifications
13.8.3 Beijing Aerospace Shenzhou Intelligent Equipment Technology Co., Ltd LEO Radiation Resistant IC Sales, Revenue, Price and Gross Margin (2020-2025)
13.8.4 Beijing Aerospace Shenzhou Intelligent Equipment Technology Co., Ltd Main Business Overview
13.8.5 Beijing Aerospace Shenzhou Intelligent Equipment Technology Co., Ltd Latest Developments

+357 96 030922
info@marketpublishers.com

13.9 BAE Systems
13.9.1 BAE Systems Company Information
13.9.2 BAE Systems LEO Radiation Resistant IC Product Portfolios and Specifications
13.9.3 BAE Systems LEO Radiation Resistant IC Sales, Revenue, Price and Gross Margin (2020-2025)
13.9.4 BAE Systems Main Business Overview
13.9.5 BAE Systems Latest Developments
13.10 Lattice Semiconductor
13.10.1 Lattice Semiconductor Company Information
13.10.2 Lattice Semiconductor LEO Radiation Resistant IC Product Portfolios and Specifications
13.10.3 Lattice Semiconductor LEO Radiation Resistant IC Sales, Revenue, Price and Gross Margin (2020-2025)
13.10.4 Lattice Semiconductor Main Business Overview
13.10.5 Lattice Semiconductor Latest Developments
13.11 Zhuhai Orbita Control Engineering Co., Ltd
13.11.1 Zhuhai Orbita Control Engineering Co., Ltd Company Information
13.11.2 Zhuhai Orbita Control Engineering Co., Ltd LEO Radiation Resistant IC Product Portfolios and Specifications
13.11.3 Zhuhai Orbita Control Engineering Co., Ltd LEO Radiation Resistant IC Sales, Revenue, Price and Gross Margin (2020-2025)
13.11.4 Zhuhai Orbita Control Engineering Co., Ltd Main Business Overview
13.11.5 Zhuhai Orbita Control Engineering Co., Ltd Latest Developments
13.12 Great Microwave Technology Co., Ltd.
13.12.1 Great Microwave Technology Co., Ltd. Company Information
13.12.2 Great Microwave Technology Co., Ltd. LEO Radiation Resistant IC Product Portfolios and Specifications
13.12.3 Great Microwave Technology Co., Ltd. LEO Radiation Resistant IC Sales, Revenue, Price and Gross Margin (2020-2025)
13.12.4 Great Microwave Technology Co., Ltd. Main Business Overview
13.12.5 Great Microwave Technology Co., Ltd. Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. LEO Radiation Resistant IC Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & ($ millions)
Table 2. LEO Radiation Resistant IC Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & ($ millions)
Table 3. Major Players of Ceramic Packaging
Table 4. Major Players of Plastic Packaging
Table 5. Global LEO Radiation Resistant IC Sales by Type (2020-2025) & (K Units)
Table 6. Global LEO Radiation Resistant IC Sales Market Share by Type (2020-2025)
Table 7. Global LEO Radiation Resistant IC Revenue by Type (2020-2025) & ($ million)
Table 8. Global LEO Radiation Resistant IC Revenue Market Share by Type (2020-2025)
Table 9. Global LEO Radiation Resistant IC Sale Price by Type (2020-2025) & (US$/Unit)
Table 10. Global LEO Radiation Resistant IC Sale by Application (2020-2025) & (K Units)
Table 11. Global LEO Radiation Resistant IC Sale Market Share by Application (2020-2025)
Table 12. Global LEO Radiation Resistant IC Revenue by Application (2020-2025) & ($ million)
Table 13. Global LEO Radiation Resistant IC Revenue Market Share by Application (2020-2025)
Table 14. Global LEO Radiation Resistant IC Sale Price by Application (2020-2025) & (US$/Unit)
Table 15. Global LEO Radiation Resistant IC Sales by Company (2020-2025) & (K Units)
Table 16. Global LEO Radiation Resistant IC Sales Market Share by Company (2020-2025)
Table 17. Global LEO Radiation Resistant IC Revenue by Company (2020-2025) & ($ millions)
Table 18. Global LEO Radiation Resistant IC Revenue Market Share by Company (2020-2025)
Table 19. Global LEO Radiation Resistant IC Sale Price by Company (2020-2025) & (US$/Unit)
Table 20. Key Manufacturers LEO Radiation Resistant IC Producing Area Distribution and Sales Area

+357 96 030922
info@marketpublishers.com

Table 21. Players LEO Radiation Resistant IC Products Offered
Table 22. LEO Radiation Resistant IC Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
Table 23. New Products and Potential Entrants
Table 24. Market M&A Activity & Strategy
Table 25. Global LEO Radiation Resistant IC Sales by Geographic Region (2020-2025) & (K Units)
Table 26. Global LEO Radiation Resistant IC Sales Market Share Geographic Region (2020-2025)
Table 27. Global LEO Radiation Resistant IC Revenue by Geographic Region (2020-2025) & ($ millions)
Table 28. Global LEO Radiation Resistant IC Revenue Market Share by Geographic Region (2020-2025)
Table 29. Global LEO Radiation Resistant IC Sales by Country/Region (2020-2025) & (K Units)
Table 30. Global LEO Radiation Resistant IC Sales Market Share by Country/Region (2020-2025)
Table 31. Global LEO Radiation Resistant IC Revenue by Country/Region (2020-2025) & ($ millions)
Table 32. Global LEO Radiation Resistant IC Revenue Market Share by Country/Region (2020-2025)
Table 33. Americas LEO Radiation Resistant IC Sales by Country (2020-2025) & (K Units)
Table 34. Americas LEO Radiation Resistant IC Sales Market Share by Country (2020-2025)
Table 35. Americas LEO Radiation Resistant IC Revenue by Country (2020-2025) & ($ millions)
Table 36. Americas LEO Radiation Resistant IC Sales by Type (2020-2025) & (K Units)
Table 37. Americas LEO Radiation Resistant IC Sales by Application (2020-2025) & (K Units)
Table 38. APAC LEO Radiation Resistant IC Sales by Region (2020-2025) & (K Units)
Table 39. APAC LEO Radiation Resistant IC Sales Market Share by Region (2020-2025)
Table 40. APAC LEO Radiation Resistant IC Revenue by Region (2020-2025) & ($ millions)
Table 41. APAC LEO Radiation Resistant IC Sales by Type (2020-2025) & (K Units)
Table 42. APAC LEO Radiation Resistant IC Sales by Application (2020-2025) & (K Units)
Table 43. Europe LEO Radiation Resistant IC Sales by Country (2020-2025) & (K Units)

+357 96 030922
info@marketpublishers.com

Table 44. Europe LEO Radiation Resistant IC Revenue by Country (2020-2025) & ($ millions)
Table 45. Europe LEO Radiation Resistant IC Sales by Type (2020-2025) & (K Units)
Table 46. Europe LEO Radiation Resistant IC Sales by Application (2020-2025) & (K Units)
Table 47. Middle East & Africa LEO Radiation Resistant IC Sales by Country (2020-2025) & (K Units)
Table 48. Middle East & Africa LEO Radiation Resistant IC Revenue Market Share by Country (2020-2025)
Table 49. Middle East & Africa LEO Radiation Resistant IC Sales by Type (2020-2025) & (K Units)
Table 50. Middle East & Africa LEO Radiation Resistant IC Sales by Application (2020-2025) & (K Units)
Table 51. Key Market Drivers & Growth Opportunities of LEO Radiation Resistant IC
Table 52. Key Market Challenges & Risks of LEO Radiation Resistant IC
Table 53. Key Industry Trends of LEO Radiation Resistant IC
Table 54. LEO Radiation Resistant IC Raw Material
Table 55. Key Suppliers of Raw Materials
Table 56. LEO Radiation Resistant IC Distributors List
Table 57. LEO Radiation Resistant IC Customer List
Table 58. Global LEO Radiation Resistant IC Sales Forecast by Region (2026-2031) & (K Units)
Table 59. Global LEO Radiation Resistant IC Revenue Forecast by Region (2026-2031) & ($ millions)
Table 60. Americas LEO Radiation Resistant IC Sales Forecast by Country (2026-2031) & (K Units)
Table 61. Americas LEO Radiation Resistant IC Annual Revenue Forecast by Country (2026-2031) & ($ millions)
Table 62. APAC LEO Radiation Resistant IC Sales Forecast by Region (2026-2031) & (K Units)
Table 63. APAC LEO Radiation Resistant IC Annual Revenue Forecast by Region (2026-2031) & ($ millions)
Table 64. Europe LEO Radiation Resistant IC Sales Forecast by Country (2026-2031) & (K Units)
Table 65. Europe LEO Radiation Resistant IC Revenue Forecast by Country (2026-2031) & ($ millions)
Table 66. Middle East & Africa LEO Radiation Resistant IC Sales Forecast by Country (2026-2031) & (K Units)
Table 67. Middle East & Africa LEO Radiation Resistant IC Revenue Forecast by

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Country (2026-2031) & ($ millions)
Table 68. Global LEO Radiation Resistant IC Sales Forecast by Type (2026-2031) & (K Units)
Table 69. Global LEO Radiation Resistant IC Revenue Forecast by Type (2026-2031) & ($ millions)
Table 70. Global LEO Radiation Resistant IC Sales Forecast by Application (2026-2031) & (K Units)
Table 71. Global LEO Radiation Resistant IC Revenue Forecast by Application (2026-2031) & ($ millions)
Table 72. Texas Instruments Basic Information, LEO Radiation Resistant IC Manufacturing Base, Sales Area and Its Competitors
Table 73. Texas Instruments LEO Radiation Resistant IC Product Portfolios and Specifications
Table 74. Texas Instruments LEO Radiation Resistant IC Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 75. Texas Instruments Main Business
Table 76. Texas Instruments Latest Developments
Table 77. STMicroelectronics Basic Information, LEO Radiation Resistant IC Manufacturing Base, Sales Area and Its Competitors
Table 78. STMicroelectronics LEO Radiation Resistant IC Product Portfolios and Specifications
Table 79. STMicroelectronics LEO Radiation Resistant IC Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 80. STMicroelectronics Main Business
Table 81. STMicroelectronics Latest Developments
Table 82. Analog Devices Basic Information, LEO Radiation Resistant IC Manufacturing Base, Sales Area and Its Competitors
Table 83. Analog Devices LEO Radiation Resistant IC Product Portfolios and Specifications
Table 84. Analog Devices LEO Radiation Resistant IC Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 85. Analog Devices Main Business
Table 86. Analog Devices Latest Developments
Table 87. Renesas Basic Information, LEO Radiation Resistant IC Manufacturing Base, Sales Area and Its Competitors
Table 88. Renesas LEO Radiation Resistant IC Product Portfolios and Specifications
Table 89. Renesas LEO Radiation Resistant IC Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 90. Renesas Main Business

+357 96 030922
info@marketpublishers.com

Table 91. Renesas Latest Developments
Table 92. AMD (Xilinx) Basic Information, LEO Radiation Resistant IC Manufacturing Base, Sales Area and Its Competitors
Table 93. AMD (Xilinx) LEO Radiation Resistant IC Product Portfolios and Specifications
Table 94. AMD (Xilinx) LEO Radiation Resistant IC Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 95. AMD (Xilinx) Main Business
Table 96. AMD (Xilinx) Latest Developments
Table 97. Microchip Basic Information, LEO Radiation Resistant IC Manufacturing Base, Sales Area and Its Competitors
Table 98. Microchip LEO Radiation Resistant IC Product Portfolios and Specifications
Table 99. Microchip LEO Radiation Resistant IC Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 100. Microchip Main Business
Table 101. Microchip Latest Developments
Table 102. Honeywell Aerospace Basic Information, LEO Radiation Resistant IC Manufacturing Base, Sales Area and Its Competitors
Table 103. Honeywell Aerospace LEO Radiation Resistant IC Product Portfolios and Specifications
Table 104. Honeywell Aerospace LEO Radiation Resistant IC Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 105. Honeywell Aerospace Main Business
Table 106. Honeywell Aerospace Latest Developments
Table 107. Beijing Aerospace Shenzhou Intelligent Equipment Technology Co., Ltd Basic Information, LEO Radiation Resistant IC Manufacturing Base, Sales Area and Its Competitors
Table 108. Beijing Aerospace Shenzhou Intelligent Equipment Technology Co., Ltd LEO Radiation Resistant IC Product Portfolios and Specifications
Table 109. Beijing Aerospace Shenzhou Intelligent Equipment Technology Co., Ltd LEO Radiation Resistant IC Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 110. Beijing Aerospace Shenzhou Intelligent Equipment Technology Co., Ltd Main Business
Table 111. Beijing Aerospace Shenzhou Intelligent Equipment Technology Co., Ltd Latest Developments
Table 112. BAE Systems Basic Information, LEO Radiation Resistant IC Manufacturing Base, Sales Area and Its Competitors
Table 113. BAE Systems LEO Radiation Resistant IC Product Portfolios and

+357 96 030922
info@marketpublishers.com

Specifications
Table 114. BAE Systems LEO Radiation Resistant IC Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 115. BAE Systems Main Business
Table 116. BAE Systems Latest Developments
Table 117. Lattice Semiconductor Basic Information, LEO Radiation Resistant IC Manufacturing Base, Sales Area and Its Competitors
Table 118. Lattice Semiconductor LEO Radiation Resistant IC Product Portfolios and Specifications
Table 119. Lattice Semiconductor LEO Radiation Resistant IC Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 120. Lattice Semiconductor Main Business
Table 121. Lattice Semiconductor Latest Developments
Table 122. Zhuhai Orbita Control Engineering Co., Ltd Basic Information, LEO Radiation Resistant IC Manufacturing Base, Sales Area and Its Competitors
Table 123. Zhuhai Orbita Control Engineering Co., Ltd LEO Radiation Resistant IC Product Portfolios and Specifications
Table 124. Zhuhai Orbita Control Engineering Co., Ltd LEO Radiation Resistant IC Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 125. Zhuhai Orbita Control Engineering Co., Ltd Main Business
Table 126. Zhuhai Orbita Control Engineering Co., Ltd Latest Developments
Table 127. Great Microwave Technology Co., Ltd. Basic Information, LEO Radiation Resistant IC Manufacturing Base, Sales Area and Its Competitors
Table 128. Great Microwave Technology Co., Ltd. LEO Radiation Resistant IC Product Portfolios and Specifications
Table 129. Great Microwave Technology Co., Ltd. LEO Radiation Resistant IC Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 130. Great Microwave Technology Co., Ltd. Main Business
Table 131. Great Microwave Technology Co., Ltd. Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of LEO Radiation Resistant IC
Figure 2. LEO Radiation Resistant IC Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global LEO Radiation Resistant IC Sales Growth Rate 2020-2031 (K Units)
Figure 7. Global LEO Radiation Resistant IC Revenue Growth Rate 2020-2031 ($ millions)
Figure 8. LEO Radiation Resistant IC Sales by Geographic Region (2020, 2024 & 2031) & ($ millions)
Figure 9. LEO Radiation Resistant IC Sales Market Share by Country/Region (2024)
Figure 10. LEO Radiation Resistant IC Sales Market Share by Country/Region (2020, 2024 & 2031)
Figure 11. Product Picture of Ceramic Packaging
Figure 12. Product Picture of Plastic Packaging
Figure 13. Global LEO Radiation Resistant IC Sales Market Share by Type in 2025
Figure 14. Global LEO Radiation Resistant IC Revenue Market Share by Type (2020-2025)
Figure 15. LEO Radiation Resistant IC Consumed in Satellite
Figure 16. Global LEO Radiation Resistant IC Market: Satellite (2020-2025) & (K Units)
Figure 17. LEO Radiation Resistant IC Consumed in Manned Spacecraft
Figure 18. Global LEO Radiation Resistant IC Market: Manned Spacecraft (2020-2025) & (K Units)
Figure 19. Global LEO Radiation Resistant IC Sale Market Share by Application (2024)
Figure 20. Global LEO Radiation Resistant IC Revenue Market Share by Application in 2025
Figure 21. LEO Radiation Resistant IC Sales by Company in 2025 (K Units)
Figure 22. Global LEO Radiation Resistant IC Sales Market Share by Company in 2025
Figure 23. LEO Radiation Resistant IC Revenue by Company in 2025 ($ millions)
Figure 24. Global LEO Radiation Resistant IC Revenue Market Share by Company in 2025
Figure 25. Global LEO Radiation Resistant IC Sales Market Share by Geographic Region (2020-2025)
Figure 26. Global LEO Radiation Resistant IC Revenue Market Share by Geographic Region in 2025

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Figure 27. Americas LEO Radiation Resistant IC Sales 2020-2025 (K Units)
Figure 28. Americas LEO Radiation Resistant IC Revenue 2020-2025 ($ millions)
Figure 29. APAC LEO Radiation Resistant IC Sales 2020-2025 (K Units)
Figure 30. APAC LEO Radiation Resistant IC Revenue 2020-2025 ($ millions)
Figure 31. Europe LEO Radiation Resistant IC Sales 2020-2025 (K Units)
Figure 32. Europe LEO Radiation Resistant IC Revenue 2020-2025 ($ millions)
Figure 33. Middle East & Africa LEO Radiation Resistant IC Sales 2020-2025 (K Units)
Figure 34. Middle East & Africa LEO Radiation Resistant IC Revenue 2020-2025 ($ millions)
Figure 35. Americas LEO Radiation Resistant IC Sales Market Share by Country in 2025
Figure 36. Americas LEO Radiation Resistant IC Revenue Market Share by Country (2020-2025)
Figure 37. Americas LEO Radiation Resistant IC Sales Market Share by Type (2020-2025)
Figure 38. Americas LEO Radiation Resistant IC Sales Market Share by Application (2020-2025)
Figure 39. United States LEO Radiation Resistant IC Revenue Growth 2020-2025 ($ millions)
Figure 40. Canada LEO Radiation Resistant IC Revenue Growth 2020-2025 ($ millions)
Figure 41. Mexico LEO Radiation Resistant IC Revenue Growth 2020-2025 ($ millions)
Figure 42. Brazil LEO Radiation Resistant IC Revenue Growth 2020-2025 ($ millions)
Figure 43. APAC LEO Radiation Resistant IC Sales Market Share by Region in 2025
Figure 44. APAC LEO Radiation Resistant IC Revenue Market Share by Region (2020-2025)
Figure 45. APAC LEO Radiation Resistant IC Sales Market Share by Type (2020-2025)
Figure 46. APAC LEO Radiation Resistant IC Sales Market Share by Application (2020-2025)
Figure 47. China LEO Radiation Resistant IC Revenue Growth 2020-2025 ($ millions)
Figure 48. Japan LEO Radiation Resistant IC Revenue Growth 2020-2025 ($ millions)
Figure 49. South Korea LEO Radiation Resistant IC Revenue Growth 2020-2025 ($ millions)
Figure 50. Southeast Asia LEO Radiation Resistant IC Revenue Growth 2020-2025 ($ millions)
Figure 51. India LEO Radiation Resistant IC Revenue Growth 2020-2025 ($ millions)
Figure 52. Australia LEO Radiation Resistant IC Revenue Growth 2020-2025 ($ millions)
Figure 53. China Taiwan LEO Radiation Resistant IC Revenue Growth 2020-2025 ($ millions)

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Figure 54. Europe LEO Radiation Resistant IC Sales Market Share by Country in 2025
Figure 55. Europe LEO Radiation Resistant IC Revenue Market Share by Country (2020-2025)
Figure 56. Europe LEO Radiation Resistant IC Sales Market Share by Type (2020-2025)
Figure 57. Europe LEO Radiation Resistant IC Sales Market Share by Application (2020-2025)
Figure 58. Germany LEO Radiation Resistant IC Revenue Growth 2020-2025 ($ millions)
Figure 59. France LEO Radiation Resistant IC Revenue Growth 2020-2025 ($ millions)
Figure 60. UK LEO Radiation Resistant IC Revenue Growth 2020-2025 ($ millions)
Figure 61. Italy LEO Radiation Resistant IC Revenue Growth 2020-2025 ($ millions)
Figure 62. Russia LEO Radiation Resistant IC Revenue Growth 2020-2025 ($ millions)
Figure 63. Middle East & Africa LEO Radiation Resistant IC Sales Market Share by Country (2020-2025)
Figure 64. Middle East & Africa LEO Radiation Resistant IC Sales Market Share by Type (2020-2025)
Figure 65. Middle East & Africa LEO Radiation Resistant IC Sales Market Share by Application (2020-2025)
Figure 66. Egypt LEO Radiation Resistant IC Revenue Growth 2020-2025 ($ millions)
Figure 67. South Africa LEO Radiation Resistant IC Revenue Growth 2020-2025 ($ millions)
Figure 68. Israel LEO Radiation Resistant IC Revenue Growth 2020-2025 ($ millions)
Figure 69. Turkey LEO Radiation Resistant IC Revenue Growth 2020-2025 ($ millions)
Figure 70. GCC Countries LEO Radiation Resistant IC Revenue Growth 2020-2025 ($ millions)
Figure 71. Manufacturing Cost Structure Analysis of LEO Radiation Resistant IC in 2025
Figure 72. Manufacturing Process Analysis of LEO Radiation Resistant IC
Figure 73. Industry Chain Structure of LEO Radiation Resistant IC
Figure 74. Channels of Distribution
Figure 75. Global LEO Radiation Resistant IC Sales Market Forecast by Region (2026-2031)
Figure 76. Global LEO Radiation Resistant IC Revenue Market Share Forecast by Region (2026-2031)
Figure 77. Global LEO Radiation Resistant IC Sales Market Share Forecast by Type (2026-2031)
Figure 78. Global LEO Radiation Resistant IC Revenue Market Share Forecast by Type (2026-2031)
Figure 79. Global LEO Radiation Resistant IC Sales Market Share Forecast by

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Application (2026-2031)

Figure 80. Global LEO Radiation Resistant IC Revenue Market Share Forecast by Application (2026-2031)

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