

Global Solid-State PIN Diode Switches Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Solid-State PIN Diode Switches market size was valued at US\$ 136 million in 2025 and is forecast to a readjusted size of US\$ 224 million by 2032 with a CAGR of 7.3% during review period.

In 2025, global sales of solid-state PIN diode switches reached 12 million units, with an average selling price of \$11 per unit. Solid-state PIN diode switches are electronic components that utilize the characteristics of solid-state PIN diodes for current switching control. They offer advantages such as fast switching speed, low power consumption, and high voltage resistance, and are widely used in communication systems, radar, radio frequency (RF) switches, power control, and test instruments. Upstream raw materials mainly include semiconductor silicon wafers, phosphine, and gallium nitride; the midstream consists of semiconductor manufacturing companies responsible for material processing and diode packaging; and downstream products directly supply communication equipment manufacturers, radar system companies, and RF module manufacturers. In 2025, the global total production capacity of solid-state PIN diode switches was approximately 15 million units, with an average industry gross margin of approximately 34%. With the development of 5G communication, the Internet of Things, and radar technology, as well as the increasing demand for high-frequency and high-power equipment, the market demand for solid-state PIN diode switches in these fields will continue to expand. Future technological innovation and new application scenarios provide enormous growth potential and business opportunities.

The solid-state PIN diode switch market is experiencing rapid growth, particularly in 5G communications, radio frequency (RF) technology, radar systems, and test and measurement equipment. With the commercialization of 5G networks and the rapid

proliferation of IoT devices, the demand for high-efficiency, low-power, and high-voltage solid-state switching devices has increased significantly. Solid-state PIN diode switches are key components due to their high switching speed, high stability, and lack of moving mechanical parts, especially excelling in applications requiring high frequency, high power, and high reliability.

From a technological trend perspective, solid-state PIN diode switches are evolving towards higher frequency, higher speed, and higher power processing capabilities, exhibiting lower insertion loss and higher durability, meeting the stringent requirements of modern communication and radar systems for rapid response and efficient signal transmission. Simultaneously, with the advancement of 5G infrastructure construction and network upgrades, global market demand is expected to continue to grow. Solid-state PIN diode switches have a broad market potential, especially in wireless communications, satellite communications, military defense, and high-end test instruments.

From a competitive landscape perspective, international companies dominate the high-end market through technological research and development and large-scale production, while domestic manufacturers are gradually penetrating the mid-to-low-end market through innovative R&D and cost advantages, showing strong growth potential, particularly in emerging markets. In the future, with the continuous expansion of new application scenarios, solid-state PIN diode switches will continue to benefit from the rapid development of communication networks, smart devices and automation, becoming an important part of electronic components.

This report is a detailed and comprehensive analysis for global Solid-State PIN Diode Switches market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Solid-State PIN Diode Switches market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Solid-State PIN Diode Switches market size and forecasts by region and

Global Solid-State PIN Diode Switches Market 2026 by Manufacturers, Regions, Type and Application, Forecast to...

country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Solid-State PIN Diode Switches market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Solid-State PIN Diode Switches market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Solid-State PIN Diode Switches
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Solid-State PIN Diode Switches market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Keysight, Narda-MITEQ, Qualwave, Infineon, Quantic PMI, Eravant, Mini-Circuits, Quantic PMI, DIBI, Macom, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Solid-State PIN Diode Switches market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Single Knife Single Throw

Single Knife Double Throw

Single Knife Multiple Throws

Others

Market segment by Frequency Range

Frequency Range:

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Cooled LWIR Lenses Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Indium Antimonide (InSb) Lens

1.3.3 Mercury Cadmium Telluride (MCT) Lens

1.3.4 Others

1.4 Market Analysis by Cooling Method

1.4.1 Overview: Global Cooled LWIR Lenses Consumption Value by Cooling Method: 2021 Versus 2025 Versus 2032

1.4.2 Stirling Chiller (Integrated)

1.4.3 Throttling Refrigeration

1.4.4 Others

1.5 Market Analysis by Focal Length Range

1.5.1 Overview: Global Cooled LWIR Lenses Consumption Value by Focal Length Range: 2021 Versus 2025 Versus 2032

1.5.2 Focal Length Range: 15mm-50mm

1.5.3 Focal Length Range: 50mm-100mm

1.5.4 Focal Length Range: 100mm-500mm+

1.6 Market Analysis by Application

1.6.1 Overview: Global Cooled LWIR Lenses Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Military

1.6.3 Security

1.6.4 Electric Power Inspection

1.6.5 Others

1.7 Global Cooled LWIR Lenses Market Size & Forecast

1.7.1 Global Cooled LWIR Lenses Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Cooled LWIR Lenses Sales Quantity (2021-2032)

1.7.3 Global Cooled LWIR Lenses Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Nanjing Cngeir Technology Co.,Ltd.

- 2.1.1 Nanjing Cngeir Technology Co.,Ltd. Details
- 2.1.2 Nanjing Cngeir Technology Co.,Ltd. Major Business
- 2.1.3 Nanjing Cngeir Technology Co.,Ltd. Cooled LWIR Lenses Product and Services
- 2.1.4 Nanjing Cngeir Technology Co.,Ltd. Cooled LWIR Lenses Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Nanjing Cngeir Technology Co.,Ltd. Recent Developments/Updates
- 2.2 Wuhan Guide
 - 2.2.1 Wuhan Guide Details
 - 2.2.2 Wuhan Guide Major Business
 - 2.2.3 Wuhan Guide Cooled LWIR Lenses Product and Services
 - 2.2.4 Wuhan Guide Cooled LWIR Lenses Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 Wuhan Guide Recent Developments/Updates
- 2.3 Temmek Optics Ltd.
 - 2.3.1 Temmek Optics Ltd. Details
 - 2.3.2 Temmek Optics Ltd. Major Business
 - 2.3.3 Temmek Optics Ltd. Cooled LWIR Lenses Product and Services
 - 2.3.4 Temmek Optics Ltd. Cooled LWIR Lenses Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 Temmek Optics Ltd. Recent Developments/Updates
- 2.4 Shape Optics technologies Pte Ltd
 - 2.4.1 Shape Optics technologies Pte Ltd Details
 - 2.4.2 Shape Optics technologies Pte Ltd Major Business
 - 2.4.3 Shape Optics technologies Pte Ltd Cooled LWIR Lenses Product and Services
 - 2.4.4 Shape Optics technologies Pte Ltd Cooled LWIR Lenses Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Shape Optics technologies Pte Ltd Recent Developments/Updates
- 2.5 Quanhom
 - 2.5.1 Quanhom Details
 - 2.5.2 Quanhom Major Business
 - 2.5.3 Quanhom Cooled LWIR Lenses Product and Services
 - 2.5.4 Quanhom Cooled LWIR Lenses Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 Quanhom Recent Developments/Updates
- 2.6 Henguangruiyuan
 - 2.6.1 Henguangruiyuan Details
 - 2.6.2 Henguangruiyuan Major Business
 - 2.6.3 Henguangruiyuan Cooled LWIR Lenses Product and Services
 - 2.6.4 Henguangruiyuan Cooled LWIR Lenses Sales Quantity, Average Price, Revenue,

Gross Margin and Market Share (2021-2026)

2.6.5 Hefeng Optics Recent Developments/Updates

2.7 Ophir Optronics Solutions

2.7.1 Ophir Optronics Solutions Details

2.7.2 Ophir Optronics Solutions Major Business

2.7.3 Ophir Optronics Solutions Cooled LWIR Lenses Product and Services

2.7.4 Ophir Optronics Solutions Cooled LWIR Lenses Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Ophir Optronics Solutions Recent Developments/Updates

2.8 Hyperion Optics

2.8.1 Hyperion Optics Details

2.8.2 Hyperion Optics Major Business

2.8.3 Hyperion Optics Cooled LWIR Lenses Product and Services

2.8.4 Hyperion Optics Cooled LWIR Lenses Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Hyperion Optics Recent Developments/Updates

2.9 WTDS Optics

2.9.1 WTDS Optics Details

2.9.2 WTDS Optics Major Business

2.9.3 WTDS Optics Cooled LWIR Lenses Product and Services

2.9.4 WTDS Optics Cooled LWIR Lenses Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 WTDS Optics Recent Developments/Updates

2.10 Infiniti Electro-Optics

2.10.1 Infiniti Electro-Optics Details

2.10.2 Infiniti Electro-Optics Major Business

2.10.3 Infiniti Electro-Optics Cooled LWIR Lenses Product and Services

2.10.4 Infiniti Electro-Optics Cooled LWIR Lenses Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Infiniti Electro-Optics Recent Developments/Updates

2.11 Delta Photonics

2.11.1 Delta Photonics Details

2.11.2 Delta Photonics Major Business

2.11.3 Delta Photonics Cooled LWIR Lenses Product and Services

2.11.4 Delta Photonics Cooled LWIR Lenses Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Delta Photonics Recent Developments/Updates

2.12 TONGHAO

2.12.1 TONGHAO Details

- 2.12.2 TONGHAO Major Business
- 2.12.3 TONGHAO Cooled LWIR Lenses Product and Services
- 2.12.4 TONGHAO Cooled LWIR Lenses Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.12.5 TONGHAO Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: COOLED LWIR LENSES BY MANUFACTURER

- 3.1 Global Cooled LWIR Lenses Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Cooled LWIR Lenses Revenue by Manufacturer (2021-2026)
- 3.3 Global Cooled LWIR Lenses Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Cooled LWIR Lenses by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Cooled LWIR Lenses Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Cooled LWIR Lenses Manufacturer Market Share in 2025
- 3.5 Cooled LWIR Lenses Market: Overall Company Footprint Analysis
 - 3.5.1 Cooled LWIR Lenses Market: Region Footprint
 - 3.5.2 Cooled LWIR Lenses Market: Company Product Type Footprint
 - 3.5.3 Cooled LWIR Lenses Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Cooled LWIR Lenses Market Size by Region
 - 4.1.1 Global Cooled LWIR Lenses Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Cooled LWIR Lenses Consumption Value by Region (2021-2032)
 - 4.1.3 Global Cooled LWIR Lenses Average Price by Region (2021-2032)
- 4.2 North America Cooled LWIR Lenses Consumption Value (2021-2032)
- 4.3 Europe Cooled LWIR Lenses Consumption Value (2021-2032)
- 4.4 Asia-Pacific Cooled LWIR Lenses Consumption Value (2021-2032)
- 4.5 South America Cooled LWIR Lenses Consumption Value (2021-2032)
- 4.6 Middle East & Africa Cooled LWIR Lenses Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Cooled LWIR Lenses Sales Quantity by Type (2021-2032)
- 5.2 Global Cooled LWIR Lenses Consumption Value by Type (2021-2032)

5.3 Global Cooled LWIR Lenses Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Cooled LWIR Lenses Sales Quantity by Application (2021-2032)

6.2 Global Cooled LWIR Lenses Consumption Value by Application (2021-2032)

6.3 Global Cooled LWIR Lenses Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Cooled LWIR Lenses Sales Quantity by Type (2021-2032)

7.2 North America Cooled LWIR Lenses Sales Quantity by Application (2021-2032)

7.3 North America Cooled LWIR Lenses Market Size by Country

7.3.1 North America Cooled LWIR Lenses Sales Quantity by Country (2021-2032)

7.3.2 North America Cooled LWIR Lenses Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Cooled LWIR Lenses Sales Quantity by Type (2021-2032)

8.2 Europe Cooled LWIR Lenses Sales Quantity by Application (2021-2032)

8.3 Europe Cooled LWIR Lenses Market Size by Country

8.3.1 Europe Cooled LWIR Lenses Sales Quantity by Country (2021-2032)

8.3.2 Europe Cooled LWIR Lenses Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Cooled LWIR Lenses Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Cooled LWIR Lenses Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Cooled LWIR Lenses Market Size by Region

9.3.1 Asia-Pacific Cooled LWIR Lenses Sales Quantity by Region (2021-2032)

- 9.3.2 Asia-Pacific Cooled LWIR Lenses Consumption Value by Region (2021-2032)
- 9.3.3 China Market Size and Forecast (2021-2032)
- 9.3.4 Japan Market Size and Forecast (2021-2032)
- 9.3.5 South Korea Market Size and Forecast (2021-2032)
- 9.3.6 India Market Size and Forecast (2021-2032)
- 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
- 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Cooled LWIR Lenses Sales Quantity by Type (2021-2032)
- 10.2 South America Cooled LWIR Lenses Sales Quantity by Application (2021-2032)
- 10.3 South America Cooled LWIR Lenses Market Size by Country
 - 10.3.1 South America Cooled LWIR Lenses Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Cooled LWIR Lenses Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Cooled LWIR Lenses Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa Cooled LWIR Lenses Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Cooled LWIR Lenses Market Size by Country
 - 11.3.1 Middle East & Africa Cooled LWIR Lenses Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa Cooled LWIR Lenses Consumption Value by Country (2021-2032)
 - 11.3.3 Turkey Market Size and Forecast (2021-2032)
 - 11.3.4 Egypt Market Size and Forecast (2021-2032)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
 - 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Cooled LWIR Lenses Market Drivers
- 12.2 Cooled LWIR Lenses Market Restraints
- 12.3 Cooled LWIR Lenses Trends Analysis

12.4 Porters Five Forces Analysis

- 12.4.1 Threat of New Entrants
- 12.4.2 Bargaining Power of Suppliers
- 12.4.3 Bargaining Power of Buyers
- 12.4.4 Threat of Substitutes
- 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Cooled LWIR Lenses and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Cooled LWIR Lenses
- 13.3 Cooled LWIR Lenses Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Cooled LWIR Lenses Typical Distributors
- 14.3 Cooled LWIR Lenses Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Solid-State PIN Diode Switches Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Solid-State PIN Diode Switches Consumption Value by Frequency Range, (USD Million), 2021 & 2025 & 2032

Table 3. Global Solid-State PIN Diode Switches Consumption Value by Encapsulation Type, (USD Million), 2021 & 2025 & 2032

Table 4. Global Solid-State PIN Diode Switches Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Keysight Basic Information, Manufacturing Base and Competitors

Table 6. Keysight Major Business

Table 7. Keysight Solid-State PIN Diode Switches Product and Services

Table 8. Keysight Solid-State PIN Diode Switches Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Keysight Recent Developments/Updates

Table 10. Narda-MITEQ Basic Information, Manufacturing Base and Competitors

Table 11. Narda-MITEQ Major Business

Table 12. Narda-MITEQ Solid-State PIN Diode Switches Product and Services

Table 13. Narda-MITEQ Solid-State PIN Diode Switches Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Narda-MITEQ Recent Developments/Updates

Table 15. Qualwave Basic Information, Manufacturing Base and Competitors

Table 16. Qualwave Major Business

Table 17. Qualwave Solid-State PIN Diode Switches Product and Services

Table 18. Qualwave Solid-State PIN Diode Switches Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Qualwave Recent Developments/Updates

Table 20. Infineon Basic Information, Manufacturing Base and Competitors

Table 21. Infineon Major Business

Table 22. Infineon Solid-State PIN Diode Switches Product and Services

Table 23. Infineon Solid-State PIN Diode Switches Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Infineon Recent Developments/Updates

Table 25. Quantic PMI Basic Information, Manufacturing Base and Competitors

Table 26. Quantic PMI Major Business

Table 27. Quantic PMI Solid-State PIN Diode Switches Product and Services

Table 28. Quantic PMI Solid-State PIN Diode Switches Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Quantic PMI Recent Developments/Updates

Table 30. Eravant Basic Information, Manufacturing Base and Competitors

Table 31. Eravant Major Business

Table 32. Eravant Solid-State PIN Diode Switches Product and Services

Table 33. Eravant Solid-State PIN Diode Switches Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Eravant Recent Developments/Updates

Table 35. Mini-Circuits Basic Information, Manufacturing Base and Competitors

Table 36. Mini-Circuits Major Business

Table 37. Mini-Circuits Solid-State PIN Diode Switches Product and Services

Table 38. Mini-Circuits Solid-State PIN Diode Switches Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Mini-Circuits Recent Developments/Updates

Table 40. Quantic PMI Basic Information, Manufacturing Base and Competitors

Table 41. Quantic PMI Major Business

Table 42. Quantic PMI Solid-State PIN Diode Switches Product and Services

Table 43. Quantic PMI Solid-State PIN Diode Switches Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Quantic PMI Recent Developments/Updates

Table 45. DIBI Basic Information, Manufacturing Base and Competitors

Table 46. DIBI Major Business

Table 47. DIBI Solid-State PIN Diode Switches Product and Services

Table 48. DIBI Solid-State PIN Diode Switches Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. DIBI Recent Developments/Updates

Table 50. Macom Basic Information, Manufacturing Base and Competitors

Table 51. Macom Major Business

Table 52. Macom Solid-State PIN Diode Switches Product and Services

Table 53. Macom Solid-State PIN Diode Switches Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Macom Recent Developments/Updates

Table 55. RADITEK Basic Information, Manufacturing Base and Competitors

Table 56. RADITEK Major Business

- Table 57. RADITEK Solid-State PIN Diode Switches Product and Services
- Table 58. RADITEK Solid-State PIN Diode Switches Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 59. RADITEK Recent Developments/Updates
- Table 60. Pasternack Basic Information, Manufacturing Base and Competitors
- Table 61. Pasternack Major Business
- Table 62. Pasternack Solid-State PIN Diode Switches Product and Services
- Table 63. Pasternack Solid-State PIN Diode Switches Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 64. Pasternack Recent Developments/Updates
- Table 65. Global Solid-State PIN Diode Switches Sales Quantity by Manufacturer (2021-2026) & (K Units)
- Table 66. Global Solid-State PIN Diode Switches Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 67. Global Solid-State PIN Diode Switches Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 68. Market Position of Manufacturers in Solid-State PIN Diode Switches, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
- Table 69. Head Office and Solid-State PIN Diode Switches Production Site of Key Manufacturer
- Table 70. Solid-State PIN Diode Switches Market: Company Product Type Footprint
- Table 71. Solid-State PIN Diode Switches Market: Company Product Application Footprint
- Table 72. Solid-State PIN Diode Switches New Market Entrants and Barriers to Market Entry
- Table 73. Solid-State PIN Diode Switches Mergers, Acquisition, Agreements, and Collaborations
- Table 74. Global Solid-State PIN Diode Switches Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
- Table 75. Global Solid-State PIN Diode Switches Sales Quantity by Region (2021-2026) & (K Units)
- Table 76. Global Solid-State PIN Diode Switches Sales Quantity by Region (2027-2032) & (K Units)
- Table 77. Global Solid-State PIN Diode Switches Consumption Value by Region (2021-2026) & (USD Million)
- Table 78. Global Solid-State PIN Diode Switches Consumption Value by Region (2027-2032) & (USD Million)
- Table 79. Global Solid-State PIN Diode Switches Average Price by Region (2021-2026) & (US\$/Unit)

Table 80. Global Solid-State PIN Diode Switches Average Price by Region (2027-2032) & (US\$/Unit)

Table 81. Global Solid-State PIN Diode Switches Sales Quantity by Type (2021-2026) & (K Units)

Table 82. Global Solid-State PIN Diode Switches Sales Quantity by Type (2027-2032) & (K Units)

Table 83. Global Solid-State PIN Diode Switches Consumption Value by Type (2021-2026) & (USD Million)

Table 84. Global Solid-State PIN Diode Switches Consumption Value by Type (2027-2032) & (USD Million)

Table 85. Global Solid-State PIN Diode Switches Average Price by Type (2021-2026) & (US\$/Unit)

Table 86. Global Solid-State PIN Diode Switches Average Price by Type (2027-2032) & (US\$/Unit)

Table 87. Global Solid-State PIN Diode Switches Sales Quantity by Application (2021-2026) & (K Units)

Table 88. Global Solid-State PIN Diode Switches Sales Quantity by Application (2027-2032) & (K Units)

Table 89. Global Solid-State PIN Diode Switches Consumption Value by Application (2021-2026) & (USD Million)

Table 90. Global Solid-State PIN Diode Switches Consumption Value by Application (2027-2032) & (USD Million)

Table 91. Global Solid-State PIN Diode Switches Average Price by Application (2021-2026) & (US\$/Unit)

Table 92. Global Solid-State PIN Diode Switches Average Price by Application (2027-2032) & (US\$/Unit)

Table 93. North America Solid-State PIN Diode Switches Sales Quantity by Type (2021-2026) & (K Units)

Table 94. North America Solid-State PIN Diode Switches Sales Quantity by Type (2027-2032) & (K Units)

Table 95. North America Solid-State PIN Diode Switches Sales Quantity by Application (2021-2026) & (K Units)

Table 96. North America Solid-State PIN Diode Switches Sales Quantity by Application (2027-2032) & (K Units)

Table 97. North America Solid-State PIN Diode Switches Sales Quantity by Country (2021-2026) & (K Units)

Table 98. North America Solid-State PIN Diode Switches Sales Quantity by Country (2027-2032) & (K Units)

Table 99. North America Solid-State PIN Diode Switches Consumption Value by

Country (2021-2026) & (USD Million)

Table 100. North America Solid-State PIN Diode Switches Consumption Value by Country (2027-2032) & (USD Million)

Table 101. Europe Solid-State PIN Diode Switches Sales Quantity by Type (2021-2026) & (K Units)

Table 102. Europe Solid-State PIN Diode Switches Sales Quantity by Type (2027-2032) & (K Units)

Table 103. Europe Solid-State PIN Diode Switches Sales Quantity by Application (2021-2026) & (K Units)

Table 104. Europe Solid-State PIN Diode Switches Sales Quantity by Application (2027-2032) & (K Units)

Table 105. Europe Solid-State PIN Diode Switches Sales Quantity by Country (2021-2026) & (K Units)

Table 106. Europe Solid-State PIN Diode Switches Sales Quantity by Country (2027-2032) & (K Units)

Table 107. Europe Solid-State PIN Diode Switches Consumption Value by Country (2021-2026) & (USD Million)

Table 108. Europe Solid-State PIN Diode Switches Consumption Value by Country (2027-2032) & (USD Million)

Table 109. Asia-Pacific Solid-State PIN Diode Switches Sales Quantity by Type (2021-2026) & (K Units)

Table 110. Asia-Pacific Solid-State PIN Diode Switches Sales Quantity by Type (2027-2032) & (K Units)

Table 111. Asia-Pacific Solid-State PIN Diode Switches Sales Quantity by Application (2021-2026) & (K Units)

Table 112. Asia-Pacific Solid-State PIN Diode Switches Sales Quantity by Application (2027-2032) & (K Units)

Table 113. Asia-Pacific Solid-State PIN Diode Switches Sales Quantity by Region (2021-2026) & (K Units)

Table 114. Asia-Pacific Solid-State PIN Diode Switches Sales Quantity by Region (2027-2032) & (K Units)

Table 115. Asia-Pacific Solid-State PIN Diode Switches Consumption Value by Region (2021-2026) & (USD Million)

Table 116. Asia-Pacific Solid-State PIN Diode Switches Consumption Value by Region (2027-2032) & (USD Million)

Table 117. South America Solid-State PIN Diode Switches Sales Quantity by Type (2021-2026) & (K Units)

Table 118. South America Solid-State PIN Diode Switches Sales Quantity by Type (2027-2032) & (K Units)

- Table 119. South America Solid-State PIN Diode Switches Sales Quantity by Application (2021-2026) & (K Units)
- Table 120. South America Solid-State PIN Diode Switches Sales Quantity by Application (2027-2032) & (K Units)
- Table 121. South America Solid-State PIN Diode Switches Sales Quantity by Country (2021-2026) & (K Units)
- Table 122. South America Solid-State PIN Diode Switches Sales Quantity by Country (2027-2032) & (K Units)
- Table 123. South America Solid-State PIN Diode Switches Consumption Value by Country (2021-2026) & (USD Million)
- Table 124. South America Solid-State PIN Diode Switches Consumption Value by Country (2027-2032) & (USD Million)
- Table 125. Middle East & Africa Solid-State PIN Diode Switches Sales Quantity by Type (2021-2026) & (K Units)
- Table 126. Middle East & Africa Solid-State PIN Diode Switches Sales Quantity by Type (2027-2032) & (K Units)
- Table 127. Middle East & Africa Solid-State PIN Diode Switches Sales Quantity by Application (2021-2026) & (K Units)
- Table 128. Middle East & Africa Solid-State PIN Diode Switches Sales Quantity by Application (2027-2032) & (K Units)
- Table 129. Middle East & Africa Solid-State PIN Diode Switches Sales Quantity by Country (2021-2026) & (K Units)
- Table 130. Middle East & Africa Solid-State PIN Diode Switches Sales Quantity by Country (2027-2032) & (K Units)
- Table 131. Middle East & Africa Solid-State PIN Diode Switches Consumption Value by Country (2021-2026) & (USD Million)
- Table 132. Middle East & Africa Solid-State PIN Diode Switches Consumption Value by Country (2027-2032) & (USD Million)
- Table 133. Solid-State PIN Diode Switches Raw Material
- Table 134. Key Manufacturers of Solid-State PIN Diode Switches Raw Materials
- Table 135. Solid-State PIN Diode Switches Typical Distributors
- Table 136. Solid-State PIN Diode Switches Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Solid-State PIN Diode Switches Picture

Figure 2. Global Solid-State PIN Diode Switches Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Solid-State PIN Diode Switches Revenue Market Share by Type in 2025

Figure 4. Single Knife Single Throw Examples

Figure 5. Single Knife Double Throw Examples

Figure 6. Single Knife Multiple Throws Examples

Figure 7. Others Examples

Figure 8. Global Solid-State PIN Diode Switches Revenue by Frequency Range, (USD Million), 2021 & 2025 & 2032

Figure 9. Global Solid-State PIN Diode Switches Revenue Market Share by Frequency Range in 2025

Figure 10. Frequency Range:

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