

Global Distributed Feedback (DFB) Laser Chip 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 Distributed Feedback (DFB) Laser Chip market size was valued at US\$ 889 million in 2025 and is forecast to a readjusted size of US\$ 1564 million by 2032 with a CAGR of 8.5% during review period.

Distributed feedback laser (DFB) chip is a high-precision single-wavelength laser designed based on semiconductor materials (such as InGaAs, InP). It realizes wavelength selection by introducing a periodic Bragg grating in the gain medium. It has the characteristics of high monochromaticity (line width \approx 1MHz), strong side mode suppression ratio (\approx 40dB), good wavelength stability (temperature drift of about 0.8 μ m/ $^{\circ}$ C), etc. It is widely used in optical fiber communication, data center, laser radar, medical detection and other fields.

In 2023, the scale of China's DFB chip market will reach 2.86 billion yuan (accounting for more than 35% of the world), and is expected to exceed 5 billion yuan in 2030, with a compound annual growth rate (CAGR) of 8.7%. The main driving forces come from 5G infrastructure (demand for base station optical modules increases by 25% annually), AI computing centers (penetration rate of silicon photonic interconnect chips increases to 40%) and new energy vehicles (the installed capacity of laser radar exceeds 10 million units); the industry presents a pattern of 'dominance by international giants + breakthroughs by local companies', with Japan's Sumitomo Electric Industries, the United States' Lumentum and others occupying the high-end market, while Yuanjie Technology (25G The localization rate of DFB chips has exceeded 60%), and local companies such as China Science and Technology Optoelectronics (10G products have entered Huawei's supply chain) have accelerated substitution by relying on core

technologies such as 'silicon photonic integration' and 'quantum dot lasers'. At the policy level, the '14th Five-Year Plan for New Materials' clearly lists DFB chips as strategic emerging industries. Coupled with the mass production of domestic 8-inch lithium niobate wafers (cost reduction of 30%) and the maturity of 3D packaging technology (yield increased to 98%), it is expected that China's market share will increase to more than 50% after 2025. However, the high-end field is still subject to the patent barriers of US and Japanese companies (accounting for 68% of core patents). The future technology iteration direction will focus on ultra-low chirp (

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 Distributed Feedback (DFB) Laser Chip Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 2.5G DFB Chip

1.3.3 10G DFB Chip

1.3.4 25G and Above DFB Chip (Including CW DFB Chip)

1.4 Market Analysis by Application

1.4.1 Overview: Global Distributed Feedback (DFB) Laser Chip Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.4.2 Fiber Access and Communication Network

1.4.3 Data Center

1.4.4 Other

1.5 Global Distributed Feedback (DFB) Laser Chip Market Size & Forecast

1.5.1 Global Distributed Feedback (DFB) Laser Chip Consumption Value (2021 & 2025 & 2032)

1.5.2 Global Distributed Feedback (DFB) Laser Chip Sales Quantity (2021-2032)

1.5.3 Global Distributed Feedback (DFB) Laser Chip Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Sumitomo Electric

2.1.1 Sumitomo Electric Details

2.1.2 Sumitomo Electric Major Business

2.1.3 Sumitomo Electric Distributed Feedback (DFB) Laser Chip Product and Services

2.1.4 Sumitomo Electric Distributed Feedback (DFB) Laser Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Sumitomo Electric Recent Developments/Updates

2.2 Mitsubishi Electric

2.2.1 Mitsubishi Electric Details

2.2.2 Mitsubishi Electric Major Business

2.2.3 Mitsubishi Electric Distributed Feedback (DFB) Laser Chip Product and Services

2.2.4 Mitsubishi Electric Distributed Feedback (DFB) Laser Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.2.5 Mitsubishi Electric Recent Developments/Updates
- 2.3 Lumentum
 - 2.3.1 Lumentum Details
 - 2.3.2 Lumentum Major Business
 - 2.3.3 Lumentum Distributed Feedback (DFB) Laser Chip Product and Services
 - 2.3.4 Lumentum Distributed Feedback (DFB) Laser Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 Lumentum Recent Developments/Updates
- 2.4 Broadcom
 - 2.4.1 Broadcom Details
 - 2.4.2 Broadcom Major Business
 - 2.4.3 Broadcom Distributed Feedback (DFB) Laser Chip Product and Services
 - 2.4.4 Broadcom Distributed Feedback (DFB) Laser Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Broadcom Recent Developments/Updates
- 2.5 YUANJIE TECHNOLOGY
 - 2.5.1 YUANJIE TECHNOLOGY Details
 - 2.5.2 YUANJIE TECHNOLOGY Major Business
 - 2.5.3 YUANJIE TECHNOLOGY Distributed Feedback (DFB) Laser Chip Product and Services
 - 2.5.4 YUANJIE TECHNOLOGY Distributed Feedback (DFB) Laser Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 YUANJIE TECHNOLOGY Recent Developments/Updates
- 2.6 Henan Shijia Photons Technology
 - 2.6.1 Henan Shijia Photons Technology Details
 - 2.6.2 Henan Shijia Photons Technology Major Business
 - 2.6.3 Henan Shijia Photons Technology Distributed Feedback (DFB) Laser Chip Product and Services
 - 2.6.4 Henan Shijia Photons Technology Distributed Feedback (DFB) Laser Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 Henan Shijia Photons Technology Recent Developments/Updates
- 2.7 Applied Optoelectronics (AOI)
 - 2.7.1 Applied Optoelectronics (AOI) Details
 - 2.7.2 Applied Optoelectronics (AOI) Major Business
 - 2.7.3 Applied Optoelectronics (AOI) Distributed Feedback (DFB) Laser Chip Product and Services
 - 2.7.4 Applied Optoelectronics (AOI) Distributed Feedback (DFB) Laser Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Applied Optoelectronics (AOI) Recent Developments/Updates

2.8 Macom

2.8.1 Macom Details

2.8.2 Macom Major Business

2.8.3 Macom Distributed Feedback (DFB) Laser Chip Product and Services

2.8.4 Macom Distributed Feedback (DFB) Laser Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Macom Recent Developments/Updates

2.9 Wuhan Mindsemi Company

2.9.1 Wuhan Mindsemi Company Details

2.9.2 Wuhan Mindsemi Company Major Business

2.9.3 Wuhan Mindsemi Company Distributed Feedback (DFB) Laser Chip Product and Services

2.9.4 Wuhan Mindsemi Company Distributed Feedback (DFB) Laser Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Wuhan Mindsemi Company Recent Developments/Updates

2.10 Wuhan Elite Optronics

2.10.1 Wuhan Elite Optronics Details

2.10.2 Wuhan Elite Optronics Major Business

2.10.3 Wuhan Elite Optronics Distributed Feedback (DFB) Laser Chip Product and Services

2.10.4 Wuhan Elite Optronics Distributed Feedback (DFB) Laser Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Wuhan Elite Optronics Recent Developments/Updates

2.11 Guilin Glsun Science And Tech Group

2.11.1 Guilin Glsun Science And Tech Group Details

2.11.2 Guilin Glsun Science And Tech Group Major Business

2.11.3 Guilin Glsun Science And Tech Group Distributed Feedback (DFB) Laser Chip Product and Services

2.11.4 Guilin Glsun Science And Tech Group Distributed Feedback (DFB) Laser Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Guilin Glsun Science And Tech Group Recent Developments/Updates

2.12 FUJIAN Z.K.LITECORE

2.12.1 FUJIAN Z.K.LITECORE Details

2.12.2 FUJIAN Z.K.LITECORE Major Business

2.12.3 FUJIAN Z.K.LITECORE Distributed Feedback (DFB) Laser Chip Product and Services

2.12.4 FUJIAN Z.K.LITECORE Distributed Feedback (DFB) Laser Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 FUJIAN Z.K.LITECORE Recent Developments/Updates

2.13 Ningbo Yuanxin Optoelectronic Technology

2.13.1 Ningbo Yuanxin Optoelectronic Technology Details

2.13.2 Ningbo Yuanxin Optoelectronic Technology Major Business

2.13.3 Ningbo Yuanxin Optoelectronic Technology Distributed Feedback (DFB) Laser Chip Product and Services

2.13.4 Ningbo Yuanxin Optoelectronic Technology Distributed Feedback (DFB) Laser Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 Ningbo Yuanxin Optoelectronic Technology Recent Developments/Updates

2.14 LuxNet Corporation

2.14.1 LuxNet Corporation Details

2.14.2 LuxNet Corporation Major Business

2.14.3 LuxNet Corporation Distributed Feedback (DFB) Laser Chip Product and Services

2.14.4 LuxNet Corporation Distributed Feedback (DFB) Laser Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 LuxNet Corporation Recent Developments/Updates

2.15 Xiamen Sanan Integrated

2.15.1 Xiamen Sanan Integrated Details

2.15.2 Xiamen Sanan Integrated Major Business

2.15.3 Xiamen Sanan Integrated Distributed Feedback (DFB) Laser Chip Product and Services

2.15.4 Xiamen Sanan Integrated Distributed Feedback (DFB) Laser Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.15.5 Xiamen Sanan Integrated Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: DISTRIBUTED FEEDBACK (DFB) LASER CHIP BY MANUFACTURER

3.1 Global Distributed Feedback (DFB) Laser Chip Sales Quantity by Manufacturer (2021-2026)

3.2 Global Distributed Feedback (DFB) Laser Chip Revenue by Manufacturer (2021-2026)

3.3 Global Distributed Feedback (DFB) Laser Chip Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Distributed Feedback (DFB) Laser Chip by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Distributed Feedback (DFB) Laser Chip Manufacturer Market Share in

2025

3.4.3 Top 6 Distributed Feedback (DFB) Laser Chip Manufacturer Market Share in 2025

3.5 Distributed Feedback (DFB) Laser Chip Market: Overall Company Footprint Analysis

3.5.1 Distributed Feedback (DFB) Laser Chip Market: Region Footprint

3.5.2 Distributed Feedback (DFB) Laser Chip Market: Company Product Type Footprint

3.5.3 Distributed Feedback (DFB) Laser Chip 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 Distributed Feedback (DFB) Laser Chip Market Size by Region

4.1.1 Global Distributed Feedback (DFB) Laser Chip Sales Quantity by Region (2021-2032)

4.1.2 Global Distributed Feedback (DFB) Laser Chip Consumption Value by Region (2021-2032)

4.1.3 Global Distributed Feedback (DFB) Laser Chip Average Price by Region (2021-2032)

4.2 North America Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032)

4.3 Europe Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032)

4.4 Asia-Pacific Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032)

4.5 South America Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032)

4.6 Middle East & Africa Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Distributed Feedback (DFB) Laser Chip Sales Quantity by Type (2021-2032)

5.2 Global Distributed Feedback (DFB) Laser Chip Consumption Value by Type (2021-2032)

5.3 Global Distributed Feedback (DFB) Laser Chip Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Distributed Feedback (DFB) Laser Chip Sales Quantity by Application (2021-2032)

6.2 Global Distributed Feedback (DFB) Laser Chip Consumption Value by Application (2021-2032)

6.3 Global Distributed Feedback (DFB) Laser Chip Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Distributed Feedback (DFB) Laser Chip Sales Quantity by Type (2021-2032)

7.2 North America Distributed Feedback (DFB) Laser Chip Sales Quantity by Application (2021-2032)

7.3 North America Distributed Feedback (DFB) Laser Chip Market Size by Country
7.3.1 North America Distributed Feedback (DFB) Laser Chip Sales Quantity by Country (2021-2032)

7.3.2 North America Distributed Feedback (DFB) Laser Chip 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 Distributed Feedback (DFB) Laser Chip Sales Quantity by Type (2021-2032)

8.2 Europe Distributed Feedback (DFB) Laser Chip Sales Quantity by Application (2021-2032)

8.3 Europe Distributed Feedback (DFB) Laser Chip Market Size by Country

8.3.1 Europe Distributed Feedback (DFB) Laser Chip Sales Quantity by Country (2021-2032)

8.3.2 Europe Distributed Feedback (DFB) Laser Chip 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 Distributed Feedback (DFB) Laser Chip Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Distributed Feedback (DFB) Laser Chip Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Distributed Feedback (DFB) Laser Chip Market Size by Region

9.3.1 Asia-Pacific Distributed Feedback (DFB) Laser Chip Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Distributed Feedback (DFB) Laser Chip 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 Distributed Feedback (DFB) Laser Chip Sales Quantity by Type (2021-2032)

10.2 South America Distributed Feedback (DFB) Laser Chip Sales Quantity by Application (2021-2032)

10.3 South America Distributed Feedback (DFB) Laser Chip Market Size by Country

10.3.1 South America Distributed Feedback (DFB) Laser Chip Sales Quantity by Country (2021-2032)

10.3.2 South America Distributed Feedback (DFB) Laser Chip 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 Distributed Feedback (DFB) Laser Chip Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Distributed Feedback (DFB) Laser Chip Sales Quantity by

Application (2021-2032)

11.3 Middle East & Africa Distributed Feedback (DFB) Laser Chip Market Size by Country

11.3.1 Middle East & Africa Distributed Feedback (DFB) Laser Chip Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Distributed Feedback (DFB) Laser Chip 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 Distributed Feedback (DFB) Laser Chip Market Drivers

12.2 Distributed Feedback (DFB) Laser Chip Market Restraints

12.3 Distributed Feedback (DFB) Laser Chip 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 Distributed Feedback (DFB) Laser Chip and Key Manufacturers

13.2 Manufacturing Costs Percentage of Distributed Feedback (DFB) Laser Chip

13.3 Distributed Feedback (DFB) Laser Chip 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 Distributed Feedback (DFB) Laser Chip Typical Distributors

14.3 Distributed Feedback (DFB) Laser Chip Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Figures

LIST OF FIGURES

Table 1. Global Distributed Feedback (DFB) Laser Chip Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Distributed Feedback (DFB) Laser Chip Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 3. Sumitomo Electric Basic Information, Manufacturing Base and Competitors

Table 4. Sumitomo Electric Major Business

Table 5. Sumitomo Electric Distributed Feedback (DFB) Laser Chip Product and Services

Table 6. Sumitomo Electric Distributed Feedback (DFB) Laser Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 7. Sumitomo Electric Recent Developments/Updates

Table 8. Mitsubishi Electric Basic Information, Manufacturing Base and Competitors

Table 9. Mitsubishi Electric Major Business

Table 10. Mitsubishi Electric Distributed Feedback (DFB) Laser Chip Product and Services

Table 11. Mitsubishi Electric Distributed Feedback (DFB) Laser Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 12. Mitsubishi Electric Recent Developments/Updates

Table 13. Lumentum Basic Information, Manufacturing Base and Competitors

Table 14. Lumentum Major Business

Table 15. Lumentum Distributed Feedback (DFB) Laser Chip Product and Services

Table 16. Lumentum Distributed Feedback (DFB) Laser Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 17. Lumentum Recent Developments/Updates

Table 18. Broadcom Basic Information, Manufacturing Base and Competitors

Table 19. Broadcom Major Business

Table 20. Broadcom Distributed Feedback (DFB) Laser Chip Product and Services

Table 21. Broadcom Distributed Feedback (DFB) Laser Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 22. Broadcom Recent Developments/Updates

Table 23. YUANJIE TECHNOLOGY Basic Information, Manufacturing Base and

Competitors

Table 24. YUANJIE TECHNOLOGY Major Business

Table 25. YUANJIE TECHNOLOGY Distributed Feedback (DFB) Laser Chip Product and Services

Table 26. YUANJIE TECHNOLOGY Distributed Feedback (DFB) Laser Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 27. YUANJIE TECHNOLOGY Recent Developments/Updates

Table 28. Henan Shijia Photons Technology Basic Information, Manufacturing Base and Competitors

Table 29. Henan Shijia Photons Technology Major Business

Table 30. Henan Shijia Photons Technology Distributed Feedback (DFB) Laser Chip Product and Services

Table 31. Henan Shijia Photons Technology Distributed Feedback (DFB) Laser Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 32. Henan Shijia Photons Technology Recent Developments/Updates

Table 33. Applied Optoelectronics (AOI) Basic Information, Manufacturing Base and Competitors

Table 34. Applied Optoelectronics (AOI) Major Business

Table 35. Applied Optoelectronics (AOI) Distributed Feedback (DFB) Laser Chip Product and Services

Table 36. Applied Optoelectronics (AOI) Distributed Feedback (DFB) Laser Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 37. Applied Optoelectronics (AOI) Recent Developments/Updates

Table 38. Macom Basic Information, Manufacturing Base and Competitors

Table 39. Macom Major Business

Table 40. Macom Distributed Feedback (DFB) Laser Chip Product and Services

Table 41. Macom Distributed Feedback (DFB) Laser Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 42. Macom Recent Developments/Updates

Table 43. Wuhan Mindsemi Company Basic Information, Manufacturing Base and Competitors

Table 44. Wuhan Mindsemi Company Major Business

Table 45. Wuhan Mindsemi Company Distributed Feedback (DFB) Laser Chip Product and Services

Table 46. Wuhan Mindsemi Company Distributed Feedback (DFB) Laser Chip Sales

Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 47. Wuhan Mindsemi Company Recent Developments/Updates

Table 48. Wuhan Elite Optronics Basic Information, Manufacturing Base and Competitors

Table 49. Wuhan Elite Optronics Major Business

Table 50. Wuhan Elite Optronics Distributed Feedback (DFB) Laser Chip Product and Services

Table 51. Wuhan Elite Optronics Distributed Feedback (DFB) Laser Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 52. Wuhan Elite Optronics Recent Developments/Updates

Table 53. Guilin Glsun Science And Tech Group Basic Information, Manufacturing Base and Competitors

Table 54. Guilin Glsun Science And Tech Group Major Business

Table 55. Guilin Glsun Science And Tech Group Distributed Feedback (DFB) Laser Chip Product and Services

Table 56. Guilin Glsun Science And Tech Group Distributed Feedback (DFB) Laser Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 57. Guilin Glsun Science And Tech Group Recent Developments/Updates

Table 58. FUJIAN Z.K.LITECORE Basic Information, Manufacturing Base and Competitors

Table 59. FUJIAN Z.K.LITECORE Major Business

Table 60. FUJIAN Z.K.LITECORE Distributed Feedback (DFB) Laser Chip Product and Services

Table 61. FUJIAN Z.K.LITECORE Distributed Feedback (DFB) Laser Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 62. FUJIAN Z.K.LITECORE Recent Developments/Updates

Table 63. Ningbo Yuanxin Optoelectronic Technology Basic Information, Manufacturing Base and Competitors

Table 64. Ningbo Yuanxin Optoelectronic Technology Major Business

Table 65. Ningbo Yuanxin Optoelectronic Technology Distributed Feedback (DFB) Laser Chip Product and Services

Table 66. Ningbo Yuanxin Optoelectronic Technology Distributed Feedback (DFB) Laser Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 67. Ningbo Yuanxin Optoelectronic Technology Recent Developments/Updates

- Table 68. LuxNet Corporation Basic Information, Manufacturing Base and Competitors
- Table 69. LuxNet Corporation Major Business
- Table 70. LuxNet Corporation Distributed Feedback (DFB) Laser Chip Product and Services
- Table 71. LuxNet Corporation Distributed Feedback (DFB) Laser Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 72. LuxNet Corporation Recent Developments/Updates
- Table 73. Xiamen Sanan Integrated Basic Information, Manufacturing Base and Competitors
- Table 74. Xiamen Sanan Integrated Major Business
- Table 75. Xiamen Sanan Integrated Distributed Feedback (DFB) Laser Chip Product and Services
- Table 76. Xiamen Sanan Integrated Distributed Feedback (DFB) Laser Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 77. Xiamen Sanan Integrated Recent Developments/Updates
- Table 78. Global Distributed Feedback (DFB) Laser Chip Sales Quantity by Manufacturer (2021-2026) & (K Units)
- Table 79. Global Distributed Feedback (DFB) Laser Chip Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 80. Global Distributed Feedback (DFB) Laser Chip Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 81. Market Position of Manufacturers in Distributed Feedback (DFB) Laser Chip, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
- Table 82. Head Office and Distributed Feedback (DFB) Laser Chip Production Site of Key Manufacturer
- Table 83. Distributed Feedback (DFB) Laser Chip Market: Company Product Type Footprint
- Table 84. Distributed Feedback (DFB) Laser Chip Market: Company Product Application Footprint
- Table 85. Distributed Feedback (DFB) Laser Chip New Market Entrants and Barriers to Market Entry
- Table 86. Distributed Feedback (DFB) Laser Chip Mergers, Acquisition, Agreements, and Collaborations
- Table 87. Global Distributed Feedback (DFB) Laser Chip Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
- Table 88. Global Distributed Feedback (DFB) Laser Chip Sales Quantity by Region (2021-2026) & (K Units)

Table 89. Global Distributed Feedback (DFB) Laser Chip Sales Quantity by Region (2027-2032) & (K Units)

Table 90. Global Distributed Feedback (DFB) Laser Chip Consumption Value by Region (2021-2026) & (USD Million)

Table 91. Global Distributed Feedback (DFB) Laser Chip Consumption Value by Region (2027-2032) & (USD Million)

Table 92. Global Distributed Feedback (DFB) Laser Chip Average Price by Region (2021-2026) & (US\$/Unit)

Table 93. Global Distributed Feedback (DFB) Laser Chip Average Price by Region (2027-2032) & (US\$/Unit)

Table 94. Global Distributed Feedback (DFB) Laser Chip Sales Quantity by Type (2021-2026) & (K Units)

Table 95. Global Distributed Feedback (DFB) Laser Chip Sales Quantity by Type (2027-2032) & (K Units)

Table 96. Global Distributed Feedback (DFB) Laser Chip Consumption Value by Type (2021-2026) & (USD Million)

Table 97. Global Distributed Feedback (DFB) Laser Chip Consumption Value by Type (2027-2032) & (USD Million)

Table 98. Global Distributed Feedback (DFB) Laser Chip Average Price by Type (2021-2026) & (US\$/Unit)

Table 99. Global Distributed Feedback (DFB) Laser Chip Average Price by Type (2027-2032) & (US\$/Unit)

Table 100. Global Distributed Feedback (DFB) Laser Chip Sales Quantity by Application (2021-2026) & (K Units)

Table 101. Global Distributed Feedback (DFB) Laser Chip Sales Quantity by Application (2027-2032) & (K Units)

Table 102. Global Distributed Feedback (DFB) Laser Chip Consumption Value by Application (2021-2026) & (USD Million)

Table 103. Global Distributed Feedback (DFB) Laser Chip Consumption Value by Application (2027-2032) & (USD Million)

Table 104. Global Distributed Feedback (DFB) Laser Chip Average Price by Application (2021-2026) & (US\$/Unit)

Table 105. Global Distributed Feedback (DFB) Laser Chip Average Price by Application (2027-2032) & (US\$/Unit)

Table 106. North America Distributed Feedback (DFB) Laser Chip Sales Quantity by Type (2021-2026) & (K Units)

Table 107. North America Distributed Feedback (DFB) Laser Chip Sales Quantity by Type (2027-2032) & (K Units)

Table 108. North America Distributed Feedback (DFB) Laser Chip Sales Quantity by

Application (2021-2026) & (K Units)

Table 109. North America Distributed Feedback (DFB) Laser Chip Sales Quantity by Application (2027-2032) & (K Units)

Table 110. North America Distributed Feedback (DFB) Laser Chip Sales Quantity by Country (2021-2026) & (K Units)

Table 111. North America Distributed Feedback (DFB) Laser Chip Sales Quantity by Country (2027-2032) & (K Units)

Table 112. North America Distributed Feedback (DFB) Laser Chip Consumption Value by Country (2021-2026) & (USD Million)

Table 113. North America Distributed Feedback (DFB) Laser Chip Consumption Value by Country (2027-2032) & (USD Million)

Table 114. Europe Distributed Feedback (DFB) Laser Chip Sales Quantity by Type (2021-2026) & (K Units)

Table 115. Europe Distributed Feedback (DFB) Laser Chip Sales Quantity by Type (2027-2032) & (K Units)

Table 116. Europe Distributed Feedback (DFB) Laser Chip Sales Quantity by Application (2021-2026) & (K Units)

Table 117. Europe Distributed Feedback (DFB) Laser Chip Sales Quantity by Application (2027-2032) & (K Units)

Table 118. Europe Distributed Feedback (DFB) Laser Chip Sales Quantity by Country (2021-2026) & (K Units)

Table 119. Europe Distributed Feedback (DFB) Laser Chip Sales Quantity by Country (2027-2032) & (K Units)

Table 120. Europe Distributed Feedback (DFB) Laser Chip Consumption Value by Country (2021-2026) & (USD Million)

Table 121. Europe Distributed Feedback (DFB) Laser Chip Consumption Value by Country (2027-2032) & (USD Million)

Table 122. Asia-Pacific Distributed Feedback (DFB) Laser Chip Sales Quantity by Type (2021-2026) & (K Units)

Table 123. Asia-Pacific Distributed Feedback (DFB) Laser Chip Sales Quantity by Type (2027-2032) & (K Units)

Table 124. Asia-Pacific Distributed Feedback (DFB) Laser Chip Sales Quantity by Application (2021-2026) & (K Units)

Table 125. Asia-Pacific Distributed Feedback (DFB) Laser Chip Sales Quantity by Application (2027-2032) & (K Units)

Table 126. Asia-Pacific Distributed Feedback (DFB) Laser Chip Sales Quantity by Region (2021-2026) & (K Units)

Table 127. Asia-Pacific Distributed Feedback (DFB) Laser Chip Sales Quantity by Region (2027-2032) & (K Units)

Table 128. Asia-Pacific Distributed Feedback (DFB) Laser Chip Consumption Value by Region (2021-2026) & (USD Million)

Table 129. Asia-Pacific Distributed Feedback (DFB) Laser Chip Consumption Value by Region (2027-2032) & (USD Million)

Table 130. South America Distributed Feedback (DFB) Laser Chip Sales Quantity by Type (2021-2026) & (K Units)

Table 131. South America Distributed Feedback (DFB) Laser Chip Sales Quantity by Type (2027-2032) & (K Units)

Table 132. South America Distributed Feedback (DFB) Laser Chip Sales Quantity by Application (2021-2026) & (K Units)

Table 133. South America Distributed Feedback (DFB) Laser Chip Sales Quantity by Application (2027-2032) & (K Units)

Table 134. South America Distributed Feedback (DFB) Laser Chip Sales Quantity by Country (2021-2026) & (K Units)

Table 135. South America Distributed Feedback (DFB) Laser Chip Sales Quantity by Country (2027-2032) & (K Units)

Table 136. South America Distributed Feedback (DFB) Laser Chip Consumption Value by Country (2021-2026) & (USD Million)

Table 137. South America Distributed Feedback (DFB) Laser Chip Consumption Value by Country (2027-2032) & (USD Million)

Table 138. Middle East & Africa Distributed Feedback (DFB) Laser Chip Sales Quantity by Type (2021-2026) & (K Units)

Table 139. Middle East & Africa Distributed Feedback (DFB) Laser Chip Sales Quantity by Type (2027-2032) & (K Units)

Table 140. Middle East & Africa Distributed Feedback (DFB) Laser Chip Sales Quantity by Application (2021-2026) & (K Units)

Table 141. Middle East & Africa Distributed Feedback (DFB) Laser Chip Sales Quantity by Application (2027-2032) & (K Units)

Table 142. Middle East & Africa Distributed Feedback (DFB) Laser Chip Sales Quantity by Country (2021-2026) & (K Units)

Table 143. Middle East & Africa Distributed Feedback (DFB) Laser Chip Sales Quantity by Country (2027-2032) & (K Units)

Table 144. Middle East & Africa Distributed Feedback (DFB) Laser Chip Consumption Value by Country (2021-2026) & (USD Million)

Table 145. Middle East & Africa Distributed Feedback (DFB) Laser Chip Consumption Value by Country (2027-2032) & (USD Million)

Table 146. Distributed Feedback (DFB) Laser Chip Raw Material

Table 147. Key Manufacturers of Distributed Feedback (DFB) Laser Chip Raw Materials

Table 148. Distributed Feedback (DFB) Laser Chip Typical Distributors

Table 149. Distributed Feedback (DFB) Laser Chip Typical Customers

LIST OF FIGURES

Figure 1. Distributed Feedback (DFB) Laser Chip Picture

Figure 2. Global Distributed Feedback (DFB) Laser Chip Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Distributed Feedback (DFB) Laser Chip Revenue Market Share by Type in 2025

Figure 4. 2.5G DFB Chip Examples

Figure 5. 10G DFB Chip Examples

Figure 6. 25G and Above DFB Chip (Including CW DFB Chip) Examples

Figure 7. Global Distributed Feedback (DFB) Laser Chip Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 8. Global Distributed Feedback (DFB) Laser Chip Revenue Market Share by Application in 2025

Figure 9. Fiber Access and Communication Network Examples

Figure 10. Data Center Examples

Figure 11. Other Examples

Figure 12. Global Distributed Feedback (DFB) Laser Chip Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 13. Global Distributed Feedback (DFB) Laser Chip Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 14. Global Distributed Feedback (DFB) Laser Chip Sales Quantity (2021-2032) & (K Units)

Figure 15. Global Distributed Feedback (DFB) Laser Chip Price (2021-2032) & (US\$/Unit)

Figure 16. Global Distributed Feedback (DFB) Laser Chip Sales Quantity Market Share by Manufacturer in 2025

Figure 17. Global Distributed Feedback (DFB) Laser Chip Revenue Market Share by Manufacturer in 2025

Figure 18. Producer Shipments of Distributed Feedback (DFB) Laser Chip by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 19. Top 3 Distributed Feedback (DFB) Laser Chip Manufacturer (Revenue) Market Share in 2025

Figure 20. Top 6 Distributed Feedback (DFB) Laser Chip Manufacturer (Revenue) Market Share in 2025

Figure 21. Global Distributed Feedback (DFB) Laser Chip Sales Quantity Market Share by Region (2021-2032)

Figure 22. Global Distributed Feedback (DFB) Laser Chip Consumption Value Market Share by Region (2021-2032)

Figure 23. North America Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032) & (USD Million)

Figure 24. Europe Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032) & (USD Million)

Figure 25. Asia-Pacific Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032) & (USD Million)

Figure 26. South America Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032) & (USD Million)

Figure 27. Middle East & Africa Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032) & (USD Million)

Figure 28. Global Distributed Feedback (DFB) Laser Chip Sales Quantity Market Share by Type (2021-2032)

Figure 29. Global Distributed Feedback (DFB) Laser Chip Consumption Value Market Share by Type (2021-2032)

Figure 30. Global Distributed Feedback (DFB) Laser Chip Average Price by Type (2021-2032) & (US\$/Unit)

Figure 31. Global Distributed Feedback (DFB) Laser Chip Sales Quantity Market Share by Application (2021-2032)

Figure 32. Global Distributed Feedback (DFB) Laser Chip Revenue Market Share by Application (2021-2032)

Figure 33. Global Distributed Feedback (DFB) Laser Chip Average Price by Application (2021-2032) & (US\$/Unit)

Figure 34. North America Distributed Feedback (DFB) Laser Chip Sales Quantity Market Share by Type (2021-2032)

Figure 35. North America Distributed Feedback (DFB) Laser Chip Sales Quantity Market Share by Application (2021-2032)

Figure 36. North America Distributed Feedback (DFB) Laser Chip Sales Quantity Market Share by Country (2021-2032)

Figure 37. North America Distributed Feedback (DFB) Laser Chip Consumption Value Market Share by Country (2021-2032)

Figure 38. United States Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032) & (USD Million)

Figure 39. Canada Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032) & (USD Million)

Figure 40. Mexico Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032) & (USD Million)

Figure 41. Europe Distributed Feedback (DFB) Laser Chip Sales Quantity Market Share

by Type (2021-2032)

Figure 42. Europe Distributed Feedback (DFB) Laser Chip Sales Quantity Market Share by Application (2021-2032)

Figure 43. Europe Distributed Feedback (DFB) Laser Chip Sales Quantity Market Share by Country (2021-2032)

Figure 44. Europe Distributed Feedback (DFB) Laser Chip Consumption Value Market Share by Country (2021-2032)

Figure 45. Germany Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032) & (USD Million)

Figure 46. France Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032) & (USD Million)

Figure 47. United Kingdom Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032) & (USD Million)

Figure 48. Russia Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032) & (USD Million)

Figure 49. Italy Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032) & (USD Million)

Figure 50. Asia-Pacific Distributed Feedback (DFB) Laser Chip Sales Quantity Market Share by Type (2021-2032)

Figure 51. Asia-Pacific Distributed Feedback (DFB) Laser Chip Sales Quantity Market Share by Application (2021-2032)

Figure 52. Asia-Pacific Distributed Feedback (DFB) Laser Chip Sales Quantity Market Share by Region (2021-2032)

Figure 53. Asia-Pacific Distributed Feedback (DFB) Laser Chip Consumption Value Market Share by Region (2021-2032)

Figure 54. China Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032) & (USD Million)

Figure 55. Japan Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032) & (USD Million)

Figure 56. South Korea Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032) & (USD Million)

Figure 57. India Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032) & (USD Million)

Figure 58. Southeast Asia Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032) & (USD Million)

Figure 59. Australia Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032) & (USD Million)

Figure 60. South America Distributed Feedback (DFB) Laser Chip Sales Quantity Market Share by Type (2021-2032)

Figure 61. South America Distributed Feedback (DFB) Laser Chip Sales Quantity Market Share by Application (2021-2032)

Figure 62. South America Distributed Feedback (DFB) Laser Chip Sales Quantity Market Share by Country (2021-2032)

Figure 63. South America Distributed Feedback (DFB) Laser Chip Consumption Value Market Share by Country (2021-2032)

Figure 64. Brazil Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032) & (USD Million)

Figure 65. Argentina Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032) & (USD Million)

Figure 66. Middle East & Africa Distributed Feedback (DFB) Laser Chip Sales Quantity Market Share by Type (2021-2032)

Figure 67. Middle East & Africa Distributed Feedback (DFB) Laser Chip Sales Quantity Market Share by Application (2021-2032)

Figure 68. Middle East & Africa Distributed Feedback (DFB) Laser Chip Sales Quantity Market Share by Country (2021-2032)

Figure 69. Middle East & Africa Distributed Feedback (DFB) Laser Chip Consumption Value Market Share by Country (2021-2032)

Figure 70. Turkey Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032) & (USD Million)

Figure 71. Egypt Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032) & (USD Million)

Figure 72. Saudi Arabia Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032) & (USD Million)

Figure 73. South Africa Distributed Feedback (DFB) Laser Chip Consumption Value (2021-2032) & (USD Million)

Figure 74. Distributed Feedback (DFB) Laser Chip Market Drivers

Figure 75. Distributed Feedback (DFB) Laser Chip Market Restraints

Figure 76. Distributed Feedback (DFB) Laser Chip Market Trends

Figure 77. Porters Five Forces Analysis

Figure 78. Manufacturing Cost Structure Analysis of Distributed Feedback (DFB) Laser Chip in 2025

Figure 79. Manufacturing Process Analysis of Distributed Feedback (DFB) Laser Chip

Figure 80. Distributed Feedback (DFB) Laser Chip Industrial Chain

Figure 81. Sales Channel: Direct to End-User vs Distributors

Figure 82. Direct Channel Pros & Cons

Figure 83. Indirect Channel Pros & Cons

Figure 84. Methodology

Figure 85. Research Process and Data Source

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