

Global Distributed Feedback (DFB) Laser Chip Market Growth 2025-2031

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Abstracts

The global Distributed Feedback (DFB) Laser Chip market size is predicted to grow from US\$ 845 million in 2025 to US\$ 1419 million in 2031; it is expected to grow at a CAGR of 9.0% 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.

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 $\leq 1\text{MHz}$), strong side mode suppression ratio ($\geq 40\text{dB}$), good wavelength stability (temperature drift of about $0.8\text{nm}/^\circ\text{C}$), 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 (

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