

Cost DFB Distributed Feedback Laser 800G



Summary of Content

DFB lasers for 800G optical systems typically cost between \$500 and \$2,500 per unit, depending on wavelength, output power, and packaging.

Overview

Distributed Feedback (DFB) lasers are single-frequency, narrow-linewidth laser diodes widely used in high-speed telecommunications, including 800G systems, due to their stable wavelength, low noise, and precise tunability. They are essential for dense wavelength division multiplexing (DWDM) and coherent optical transmission, where wavelength precision and mode stability are critical.

Factors Affecting Cost

- **Wavelength and Tuning Range:** DFB lasers for telecom typically operate in the C-band (1530–1565 nm) or L-band (1565–1625 nm). Lasers with tighter wavelength tolerances or broader tunability are more expensive.
- **Output Power:** Higher output power (e.g., 80–130 mW) increases cost due to more robust thermal management and packaging requirements.
- **Package Type:**
 - **TO-can:** Compact and lower cost, suitable for OEM integration.
 - **Butterfly package:** Includes thermoelectric cooling (TEC), photodiode monitoring, and optical isolators; higher cost but better stability.
 - **Fiber-coupled or OEM packages:** Custom integration can increase price significantly.

Article Content

Distributed Feedback Lasers | Suppliers | Photonics Buyers' Guide ...

Explore 26 top manufacturers and suppliers of Distributed Feedback Lasers in our comprehensive photonics buyers' guide. A

Distributed Feedback Lasers

FLC - Frankfurt Laser Company GmbH is a world leading supplier of all kinds of laser diodes (FP to DFB), VCSELs and DPSS lasers.

Distributed Feedback Lasers Features & Technology | nanoplus

For more than 25 years, nanoplus has been the technology leader for ultra-precise distributed feedback lasers. They are used for

Distributed Feedback Lasers – Buyer's Guide & Suppliers

This buyer's guide for distributed feedback lasers provides technical background, comparison of major types, selection criteria, and

DFB Lasers | Technical Guide | SELECTION GUIDE

Quite a few factors contribute to the higher cost of DFB lasers. But the high price of these lasers is primarily a result of

Micron Laser (DFB/DBR) » Distributed Feedback Laser » Laser

The front facet of the laser chip is provided with a high quality antireflection coating for avoiding the Fabry Perot modes of the laser

Distributed Feedback Lasers – DFB laser

A distributed-feedback laser (DFB laser) is a laser where the whole resonator consists of a periodic structure in the laser gain

Distributed Feedback (DFB) Single-Frequency Lasers, TO Can

Our DBR single-frequency lasers offer similar linewidths and tuning ranges to the DFB lasers but have a higher output power at the

Continuous Wave DFB Chips

Our Continuous Wave (CW) Distributed Feedback (DFB) chips cater to a wide array of applications, from high-power DWDM light

DFB Laser | distributed feedback (DFB) lasers diodes | shop RPMC

Our Distributed Feedback (DFB) Lasers provide single-frequency output with unparalleled wavelength stability, ideal for gas

Contact Us

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