Inventory DFB Distributed Feedback Laser OSFP

Article Overview

Fiber-coupled DFB lasers, including wavelengths from 1030 nm to 1550 nm, are available in stock and compatible with OSFP modules for high-speed optical applications.

Overview of DFB Lasers

Distributed Feedback (DFB) lasers are single-frequency, narrow-linewidth lasers where the optical feedback is provided by a periodic Bragg grating integrated into the gain medium, rather than discrete mirrors . This design ensures stable single-mode operation, minimal mode hopping, and high spectral purity, making them ideal for telecommunications, LiDAR, gas sensing, and quantum applications . DFB lasers can be temperature- and current-tuned over a small range (typically ±1 nm) to match specific system requirements .

OSFP-Compatible DFB Lasers

OSFP (Octal Small Form-factor Pluggable) modules are designed for high-speed optical transceivers, supporting data rates up to 400 Gbps. DFB lasers in OSFP packages are typically fiber-coupled, ensuring efficient integration into optical networks and sensor systems . Stock availability includes:

• Wavelengths: 1030 nm, 1064 nm, 1310 nm, 1550 nm, and any wavelength between 1250 nm and 1650 nm ....

Article Content

Mar 19, 2026

Worldwide Distributed Feedback (DFB) Laser Chip Market 2026

The Global Distributed Feedback (DFB) Laser Chip Market was valued at USD 875.0 Million in 2025 and is projected

Feb 19, 2026

FP.VS DFB laser in OPTICAL module

DFB lasers is based on FP lasers using grating-optical device consider the device has only one longitudinal mode output. DFB

May 25, 2026

Distributed-Feedback Lasers | Springer Nature Link

All of the lasers that have been described so far depend on optical feedback from a pair of reflecting surfaces, which form a Fabry

Nov 02, 2025

Distributed Feedback (DFB) Laser Diodes

Distributed Feedback (DFB) Laser Diodes from the leading manufacturers are listed here. Narrow down on the list of Distributed

Mar 11, 2026

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

GaN distributed feedback lasers GaN (gallium nitride) distributed feedback (DFB) lasers refer to a specific type of semiconductor

Sep 10, 2025

Global Distributed Feedback Laser (DFB) Market Size, Growth Trends ...

The Distributed Feedback Laser (DFB) market exhibits a predominantly consolidated structure, characterized by a

Jul 15, 2026

Everything You Need to Know About DFB Lasers

Learn about the definition, working principle, types, features, and applications of the Distributed Feedback (DFB)

Oct 01, 2025

Distributed Feedback Lasers – Buyer''s Guide & Suppliers

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

Nov 04, 2025

Distributed Feedback Lasers

Good-quality long-distance optical transmission over fiber needs lasers which emit at a single wavelength. This is almost universally

Aug 26, 2025

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

Mar 09, 2026

DFB laser

Our DFB Laser sets the benchmark for high side-mode suppression, essential for applications demanding unparalleled precision.

Jun 27, 2026

How DFB Lasers Impact on Modern Optical Applications

Distributed Feedback (DFB) lasers represent a pivotal advancement in semiconductor laser technology,

Nov 13, 2025

Optofluidic distributed feedback lasers with evanescent pumping ...

We demonstrate an evanescently pumped water-based optofluidic distributed feedback (DFB) laser with a record low

Jan 19, 2026

What is a DFB Laser?

A DFB laser (Distributed Feedback Laser) is a type of semiconductor laser diode where a periodic structure (called a

Jan 28, 2026

25G Distributed Feedback Lasers

These products utilize patented Etched Facet Technology (EFT) for wafer-scale testing and manufacturing with the following benefits:

Jul 07, 2026

Chapter 15 Distributed-Feedback Lasers

Distributed-Feedback Lasers Most of the lasers that have been described so are depend on optical feedback from aces, which form a

Oct 13, 2025

Advanced distributed feedback lasers based on composite fiber

Distributed feedback (DFB) fiber lasers are known as a versatile source of single-frequency radiation for a wide variety

Jun 11, 2026

Chapter 9.6.2: Distributed Feedback Lasers | GlobalSpec

9.6.2 Distributed Feedback Lasers Applications such as high-speed data transmission in fiber optics require limiting laser emission to

Nov 11, 2025

Distributed Feedback Laser (DFB) : Key Specifications and Buying Tips

Selecting the right Distributed Feedback (DFB) laser is a critical step for ensuring superior performance in fiber-optic

May 11, 2026

Distributed Feedback Laser

A Distributed-Feedback (DFB) laser is defined as a single-wavelength laser that utilizes a Bragg grating for single-wavelength

Oct 18, 2025

Distributed Feedback (DFB) Single-Frequency Lasers,

Clicking the "Choose Item" drop-down opens a list containing all of the in-stock lasers around the desired

Jan 07, 2026

Distributed Feedback (DFB) Lasers

Yesterday, I wrote about the fundamentals of Distributed Feedback (DFB) Lasers, covering their structure, working

Aug 31, 2025

(PDF) Design and fabrication of a four-channel CWDM cooled DFB-LD ...

This article presents the design, fabrication, and testing methodology of a four-channel coarse wavelength division

Oct 01, 2025

DFB Lasers Explained: All You Need to Know

A pivotal technology here is distributed feedback lasers. These are now essential to telecommunications, as well as a host of other

Apr 18, 2026

Distributed-feedback laser

A distributed-feedback laser (DFB) is a type of laser diode, quantum-cascade laser or optical-fiber laser where the active region of

Jun 14, 2026

Microsoft Word

13.2 Distributed Feedback (DFB) Lasers (1D Photonic Crystal Lasers) 13.2.1 Introduction: The structure of a DFB laser is shown in

Contact Us

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