

# Bahamas DFB Distributed Feedback Laser 200G



## Overview

Covering NIR to LWIR wavelengths (750nm-17 $\mu$ m), these lasers feature integrated DFB gratings and TEC cooling for robust thermal management and low-noise performance across diverse conditions. The acronym DFB laser stands for distributed feedback laser. Their key features relative to other semiconductor lasers are their single longitudinal mode (single frequency) emission profile, their high stability and their wavelength tunability. It's important to note that the wavelength tunability. A distributed-feedback laser (DFB) is a type of laser diode, quantum-cascade laser or optical-fiber laser where the active region of the device contains a periodically structured element or diffraction grating. Typically, the periodic structure is made with a phase shift in its middle.



## Article Content

Jul 05, 2025

Distributed Feedback Lasers Features & Technology | nanoplus

Applications include power plants, gas pipelines and emission control systems as well as airborne and satellite applications. Visit our applications section for detailed descriptions of the use of nanoplus

Aug 04, 2025

Coherent to Hold Industry-First Live Demonstration of 200G PAM4

This live demonstration will showcase a distributed feedback laser (DFB) and Mach-Zehnder modulator combined monolithically in a photonic integrated circuit (PIC) that enables 200G

Jul 10, 2025

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 chip. Distributed Feedback (DFB) Diode Lasers are available at

Jul 02, 2025

Distributed Feedback Laser

A Distributed-Feedback (DFB) laser is defined as a single-wavelength laser that utilizes a Bragg grating for single-wavelength filtering, enabling narrow spectral width and reduced dispersion, making it

Aug 28, 2025

Distributed Feedback (DFB) Single-Frequency Lasers,

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

Oct 29, 2025

First live demo of 200G PAM4 Mach-Zehnder modulated

The live demonstration combines a distributed feedback laser (DFB) and Mach-Zehnder modulator combined monolithically in a photonic integrated

Aug 25, 2025

Distributed Feedback Lasers

Good-quality long-distance optical transmission over fiber needs lasers which emit at a single wavelength. This is almost universally realized by putting a wavelength-dependent reflector into the

Sep 06, 2025

Research Progress of Monolithic Integrated DFB Laser

Photonic integrated circuits (PICs) play a leading role in modern information and communications technology. Among the core devices in PICs is

Feb 16, 2026

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

Offers high-quality DFB lasers (1018-1188 nm) for diverse applications. Our lasers support a wide range of operations from picosecond (15, 20 or 50 ps) to nanosecond pulses and CW, ideal for material

Nov 20, 2025

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 the Figures below. The laser cavity is not like any we have seen before.

Jul 08, 2025

Everything You Need to Know About DFB Lasers

The laser includes a built-in distributed Bragg reflector (DFB grating) along the entire length of the active region, providing feedback without end

Apr 10, 2026

Distributed Feedback Fiber Laser Strain Sensor Technology

Abstract Distributed feedback fiber laser (DFB FL) sensors have been the subject of considerable research interest over the past decade, due primarily to their remarkable inherent strain

Feb 25, 2026

Directly Modulated Semiconductor Lasers Market 2025

DMLs, particularly Distributed Feedback (DFB) lasers, are widely adopted in these applications due to their reliability and compact form factor. Furthermore, the growing adoption of 400G and 800G optical

Apr 28, 2026

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nanoplus sets the standard for DFB laser technology. For more than 25 years, nanoplus has been the technology leader for ultra-precise distributed feedback lasers. They are used for high-performance

Jun 02, 2026

Distributed Feedback Lasers - DFB laser

What is a distributed feedback (DFB) laser? A DFB laser is a type of laser where the optical feedback is provided by a periodic structure, such as a Bragg grating, that

Sep 03, 2025

Dual-cavity feedback assisted DFB narrow linewidth laser

Single longitudinal mode (SLM) distributed feedback (DFB) lasers with a linewidth lower than a few kHz find applications in many coherent detection

Sep 12, 2025

Low-Noise, Narrow-Linewidth Laser System, O-Band

Thorlabs' DFB13TK Turnkey, Low-Noise Distributed Feedback (DFB) Laser System is a ready-to-use laser system that integrates a 1310 nm DFB laser with a low

Nov 08, 2025

Design and realization of high-power DFB lasers

Single-frequency, single-spatial mode distributed feedback (DFB) and distributed Bragg reflector (DBR) lasers have important applications in communication, spectroscopy, frequency conversion, atomic

Sep 02, 2025

What are Distributed Feedback (DFB) Lasers?

A Distributed Feedback (DFB) laser is a laser device whose active medium consists of a repeating corrugated structure. The corrugated structure is

Jun 12, 2026

DFB Lasers | Technical Guide | SELECTION GUIDE

WHAT IS A DFB LASER? The acronym DFB laser stands for distributed feedback laser. Their key features relative to other semiconductor

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DFB Laser | distributed feedback (DFB) lasers diodes

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

Oct 19, 2025

### 13. Distributed-Feedback Lasers

13. Distributed-Feedback Lasers All of the lasers that have been described so far depend on optical feedback from a pair of reflecting surfaces, which form a Fabry-Perot etalon. In an optical integrated

Dec 24, 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 Feedback (DFB) Laser Diodes by wavelength, type, technology and other

Jun 04, 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 the device contains a periodically structured element or diffraction grating.

Mar 23, 2026

### DFB Lasers | Technical Guide | SELECTION GUIDE

The acronym DFB laser stands for distributed feedback laser. Their key features relative to other semiconductor lasers are their single longitudinal

Jan 19, 2026

### Handbook of Distributed Feedback Laser Diodes, Second Edition

Bistable and self-pulsating DFB lasers can be applied in more advanced applications, such as optical logic, optical signal regeneration, and clock extraction. Chapter 12 discusses the fabrication and

## Contact Us

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