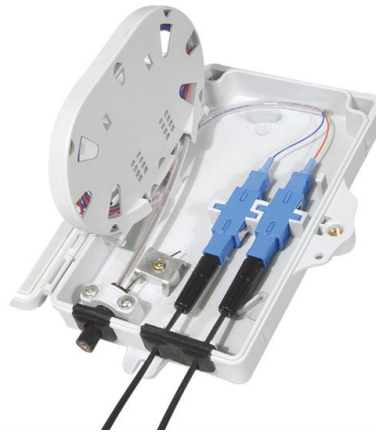


Manufacturer DFB Distributed Feedback Laser SFP



Article Overview

Top manufacturers of Distributed Feedback (DFB) lasers for SFP applications include Eblana Photonics, Frankfurt Laser Company, nanoplus, Thorlabs, and RPMC Lasers, offering precise, narrow-linewidth, single-frequency laser diodes across NIR to mid-IR wavelengths.

Key Manufacturers and Offerings

Eblana Photonics (Ireland) specializes in high-quality DFB lasers covering 1018–1188 nm, suitable for picosecond to nanosecond pulses and continuous-wave (CW) operation. Their lasers are used in material processing, gas sensing, LiDAR, and semiconductor inspection. Frankfurt Laser Company provides FP, DFB, and DBR laser diodes, including free-space and fiber-coupled modules, spanning 213 nm to 20 μm with output powers up to 5600 W. They offer custom assemblies for OEM integration and harsh environments. nanoplus is a leader in ultra-precise DFB lasers, offering wavelengths from 760 nm to 14 μm with 0.1 nm precision. Their patented lateral metal grating technology ensures single-mode emission, and they provide free-space, fiber-coupled, and OEM packages for high-performance gas sensing and spectroscopy. Thorlabs supplies narrow-linewidth, single-frequency DFB lasers in TO-can and butterfly packages, with typical linewidths of 0.1 nm or 150 kHz and side mode suppression ratios ≤ 50 dB. These lasers are temperature and current tunable, with output powers ranging from 5 mW to 130 mW, suitable for SFP integration with fiber-coupled options. RPMC Lasers offers DFB lasers covering 750 nm to 17 μm , with integrated DFB gratings and TEC cooling for thermal stability. Their hermetically se...

Article Content

What is a DFB Laser and Why is it Important?

A DFB laser, or distributed feedback laser, is a semiconductor device that emits highly stable, single-frequency light

DFB laser

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

25G Distributed Feedback Lasers

MACOM's Distributed Feedback (DFB) laser diodes are designed for direct modulation uncooled operation up to 25Gb/s. These

Distributed Feedback Laser

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

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

Distributed Feedback Laser Basic Information

Overall, distributed feedback laser diodes are powerful tools for scientists in many fields due to their unique properties, enabling

DFB Lasers | Technical Guide | SELECTION GUIDE

WHAT IS A DFB LASER? The acronym DFB laser stands for distributed feedback laser.

Distributed Feedback Laser Diodes (Semiconductor Lasers ...

This page describes our DFB-LD (Distributed Feedback Laser Diode) products suitable for applications such as fiber sensing, 3D

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

Distributed Feedback (DFB): Distributed Feedback (DFB) Diode Lasers are fixed wavelength single mode diode lasers. Typical

Do you know the transceiver laser types?

DML Laser DMLs generally use a distributed feedback structure, a diffraction grating in the waveguide that can be the

FS Community

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

What Are the Different Types of Distributed Feedback Lasers?

Distributed feedback lasers (DFB lasers) are a specialized type of laser characterized by a periodic structure within

DFB Laser | distributed feedback (DFB) lasers diodes

Our Distributed Feedback (DFB) Lasers provide single-frequency output with unparalleled wavelength

DFB Distributed Feedback Laser Diode » Laser Diodes » Available ...

Ext. Cavity Laser Controller Benchtop Laser Controller OEM Diode Laser Controller Laser Diodes Fabry Perot Laser Diode DFB

Fabry-Perot vs. Distributed Feedback Lasers: Key

In essence, while both Fabry-Perot and Distributed Feedback lasers serve as optical sources, they differ

Overview of DFB Laser: Types, Characteristics,

Final Words So these are the working principles, characteristics and some applications of

Difference Between FP Laser and DFB Laser

We hope that with the help of this post, you are well aware of the difference between FP Laser and DFB Laser. If you

How Distributed Feedback Lasers Shape Modern Technology

Lasers have revolutionized numerous fields by providing a highly controlled source of light with unique properties.

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

What is a DFB Laser?

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

Distributed Feedback Lasers – DFB laser

Thorlabs' single-frequency laser portfolio includes a wide variety of distributed feedback (DFB) lasers. We

Distributed Feedback Lasers Features & Technology

nanoplus uses a unique and patented technology for DFB laser manufacturing. We apply a lateral metal

Distributed Feedback (DFB) Laser Diodes

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

What are Distributed Feedback (DFB) Lasers?

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

Distributed Feedback Lasers | Suppliers

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

TOPTICA Photonics SE

DFB pro lasers use a Distributed feedback (DFB) laser diode. This technical solution unites wide tunability

High-Efficiency Lasers for Silicon Photonics Transceivers

Aug. 28, 2024. Coherent announced today the launch of new high-efficiency continuous wave (CW) distributed feedback (DFB)

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