Italian CIF price DFB distributed feedback laser QSFP



Overview

A DFB laser, or distributed feedback laser, is a semiconductor device that emits highly stable, single-frequency light using a built-in grating structure for optical feedback.

Key Takeaways

DFB lasers for QSFP modules typically range from $150 to over $3,000 per unit, depending on wavelength, packaging, and fiber integration, with CIF prices in Italy varying by supplier and order volume.

Pricing Overview

Distributed Feedback (DFB) lasers are single-frequency, narrow-linewidth semiconductor lasers widely used in telecommunications, data centers, and high-speed optical networks. Pricing depends on several factors: Wavelength and spectral purity: Common telecom wavelengths are 1310nm and 1550nm, while specialized sensing applications may use 1064nm or other NIR/LWIR wavelengths. Package type: TO-can packages are generally lower cost (~$150), while butterfly packages with integrated single-mode fiber can exceed $3,000 per unit.

Thermal management and integration: Devices with TEC cooling, hermetic sealing, or integrated DFB gratings command higher prices. Order volume and supplier: Bulk orders or direct manufacturer sourcing can reduce per-unit cost, while small quantities from distributors may be higher.

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QSF

P Module ContextQSFP (Quad Small Form-Factor Pluggable) modules incorporate DFB lasers for high-bandwidth optical transmission. The global QSFP market is projected to reach $8. 6 billion by 2025, driven by 5G, hyperscale data centers, and cloud computing.

DF

B lasers in QSFP modules are critical for dense wavelength division multiplexing (DWDM) and high-speed Ethernet applications. Italian Market ConsiderationsItaly's DFB laser market is growing due to digital infrastructure modernization and 5G deployment, with standard DFB lasers dominating and narrow-linewidth or tunable variants expanding rapidly.

CI

F pricing in Italy will depend on: Supplier location and shipping termsImport duties and insuranceModule customization (wavelength, fiber type, and packaging)Volume discounts for industrial or data center applicationsSupplier GuidanceReliable suppliers for DFB lasers suitable for QSFP modules include RPMC Lasers, Nanoplus, AeroDIODE, Thorlabs, and NEL.

For Italian CI

F pricing: Request a formal quote specifying wavelength, package type, and fiber integration. Include shipping and insurance terms to calculate CIF accurately. Consider local distributors or European suppliers to reduce logistics costs.

Summary

While exact CIF prices for Italy vary, expect DFB lasers for QSFP modules to range from $150 for basic TO-can devices to over $3,000 for fiber-coupled, butterfly-packaged units. For precise CIF pricing, direct supplier quotes are essential, factoring in shipping, insurance, and volume. The Italian market is favorable for adoption due to ongoing 5G and data center expansion, with multiple suppliers offering configurable DFB solutions.

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Article Content

Distributor DFB Distributed Feedback Laser QSFP-DD

A DFB laser, or distributed feedback laser, is a semiconductor device that emits highly stable, single-frequency light using a built-in grating structure for optical feedback.

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 medium, which acts as a distributed Bragg reflector in the wavelength

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

Distributed Feedback Lasers – Dfb Laser

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

Italian FOB price DFB distributed feedback laser OSFP

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

Distributed Feedback (DFB) Laser Diodes

Narrow down on the list of Distributed Feedback (DFB) Laser Diodes by wavelength, type, technology and other parameters. Once you find a list of relevant products download datasheets and request

400G Digital Optical Transceiver Market: Share & Growth Drivers

Upstream dependencies are substantial, with a concentrated number of suppliers for highly specialized components like DFB (Distributed Feedback) lasers, EML (Electro-absorption Modulated

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 expense of mode-hop-free operation.

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

Italy Distributed Feedback Laser (DFB) Market By Type, By ...

Industry leaders in the Italy Distributed Feedback Laser (DFB) Market are shaping the competitive landscape through focused strategies and well-defined priorities.

Italian FOB price DFB distributed feedback laser OSFP

Italy Distributed Feedback (DFB) Laser Diode Market Size The Italy DFB laser diode market is positioned at the intersection of advanced photonic technology and growing demand across multiple

Distributed Feedback Lasers Features & Technology

nanoplus sets the standard for DFB laser technology. For more than 25 years, nanoplus has been the technology leader for ultra-precise distributed feedback

DFB Lasers: Explore What it is

With the advancement of communication technology, DFB lasers are increasingly being used in various industries and playing a vital role. Over time, distributed feedback lasers have

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

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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 research and commercial applications. But what are

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

The Distributed Feedback Laser (DFB) market exhibits a predominantly consolidated structure, characterized by a handful of global players commanding significant market share through

Distributed Feedback (DFB) Laser Diodes

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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

DFB Laser: Distributed Feedback Laser Structure, Working Principles ...

What is DFB Laser? A Distributed Feedback (DFB) Laser is a single-mode semiconductor laser that uses an internal periodic grating structure to provide optical feedback along the entire gain

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