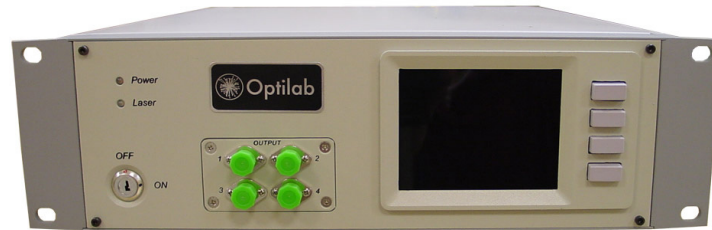


DFB-4-B



4 Channel DFB Laser Source, Benchtop

The Optilab DFB-4-B is a Distributed Feedback (DFB) laser source in a benchtop unit designed for general laboratory applications. The DFB-4-B is a reliable and high-performance DFB laser source for providing up to 4 DFB wavelengths. With Optilab's comprehensive inventory of high quality lasers, the DFB-4-B source can be ordered from a large variety of wavelengths, and is constructed with Telcordia-qualified laser to ensure 15+ years of operating life. The DFB laser's operating temperature and drive current are precisely monitored by a micro-controller to ensure constant output power and emission wavelength stability. Using its intuitive front panel or an optional USB interface, the user can control the DFB output power level by adjusting the laser drive current and emission wavelength via TEC. Contact Optilab for more information.

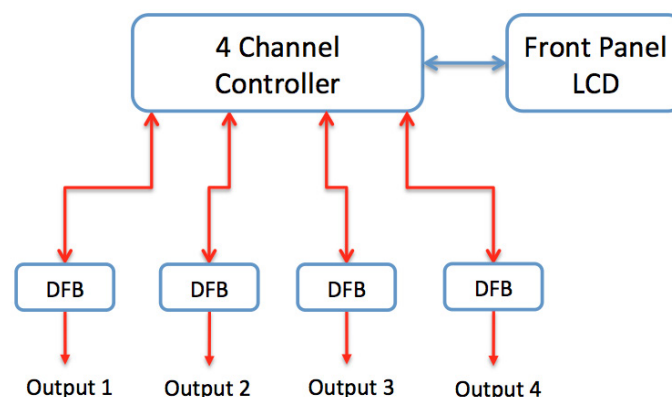
Features

- Up to 4 Wavelength DFB sources
- DFB with up to 50 mW output
- Stability Wavelength to ± 5 pm
- C band, O band, L band wavelengths available
- Polarization Maintaining (PM) output available
- USB Control Interface
- Wavelength tuning range: ± 1.5 nm

Applications

- Laboratory Testing and Measurement
- DWDM Networks
- Seed Laser
- Fiber Optics Components Testing
- Fiber Sensors

Functional Diagram



4 Channel DFB Laser Source, Benchtop

OPTIONS

- DFB-w-B-xx-y-z**
- w Number of Lasers up to 4
- xx Optical Power Level (mW): 10, 20, 40, or 50 (depends on wavelength)
- y Fiber Type S, SM; P, PM
- z Wavelengths

TECHNICAL INFO

For technical info and support:

sales@optilab.com

www.optilab.com

WEB ORDER

To order, please visit OEQuest.com.



Optilab Advantage

- Innovation
- Performance
- Quality
- Customization
- Warranty

Technical Specifications	
Number of DFB	Up to 4 Lasers in One Unit
Available Wavelength Range	O-band: 1290-1350 nm C-band: 1528-1564 nm L-band optional See attached Table 1.0
Wavelength Tuning Range	±1.5 nm
Output Power	10 mW, 20 mW, 40 mW, 50 mW on select wavelengths
Output Power Stability	±0.2 dB over 8 hours
Wavelength Stability	±5 pm over 8 Hours
Laser Linewidth	2 MHz typ.
Narrow Linewidth	< 500 kHz available
Side Mode Suppression Ratio	45 dB typ.
Optical Isolator	30 dB min.
Relative Intensity Noise	-145 dB/Hz max.
Polarization Extinction Ratio	20 dB typ. (with PM fiber Option)
Adjustable Features and Output	
Channel Output Control	On/Off
DFB Power Output	10 -100% adjustable range
DFB Wavelength Tuning	±1.5 nm (from wavelength center)
Mechanical Specifications	
Operating Temperature	10° C to +50° C
Storage Temperature	-10° C to +70° C
Operating Humidity	0% to 85% Relative Humidity
Power Supply	80 – 240 V, 43 – 63 Hz AC or 40 - 58 V DC (Optional)
Power Consumption	50 W max.
Housing Dimensions	Benchtop, 14" x 12.5" x 3.5"
Control / Monitoring	LD Current, Output Power, Laser Wavelength
Remote Control	RS-232 via USB Connector
Control / Monitoring	LD Current, Laser Wavelength
Optical Connectors	FC/APC; Other options are available
Optical Fiber Type	SMF-28 (Standard), PANDA for PM Output

4 Channel DFB Laser Source, Benchtop

Table 1.0 Available DFB-PM Wavelengths for O-band and C-band

O-band	C-band	
Wavelength	Wavelength	
1270 nm	1528 nm	1546 nm
1290 nm	1530 nm	1548 nm
1310 nm	1532 nm	1550 nm
1330 nm	1534 nm	1552 nm
1350 nm	1536 nm	1554 nm
	1538 nm	1556 nm
	1540 nm	1558 nm
	1542 nm	1560 nm
	1544 nm	1562 nm

* L-band wavelength is available upon request.

Remote Labview Interface

Optilab offers remote interface via Labview software, for parameter adjustment and status monitoring, contact Optilab for more details.

