DFB-8-R

DFB-8-R

8 DFB Laser Source, Rackmount

The Optilab DFB-8-R is a Distributed Feedback (DFB) laser source in a rackmount unit designed for Dense Wavelength Division Multiplexing (DWDM) as well as component testing and qualification, and general laboratory applications. The DFB-8-R is a reliable and cost-effective DFB laser source for providing up to 8 DFB wavelengths. With Optilab's comprehensive inventory of high quality lasers, the DFB-8-R 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. With its simple and intuitive front panel interface, the user can control the DFB output power level by adjusting the laser drive current and emission wavelength. Contact Optilab for more information.

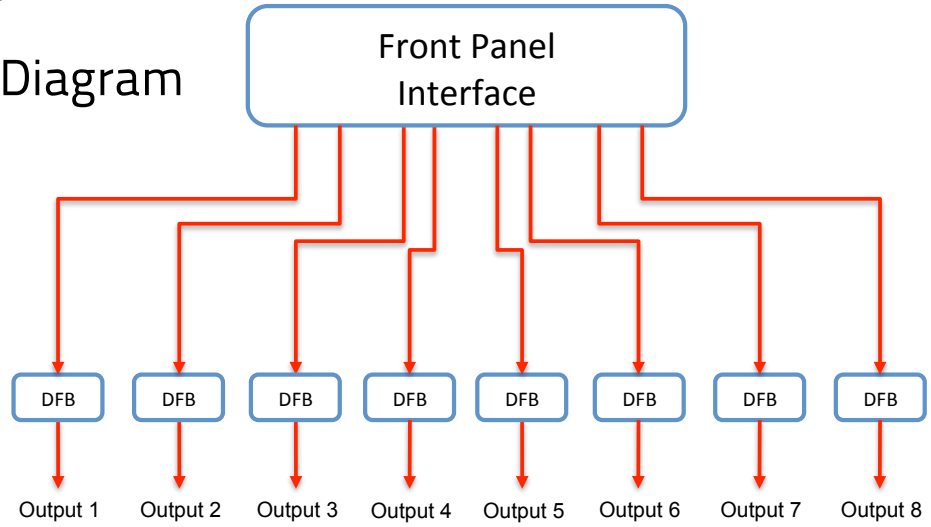
Features

- Up to 8 Wavelength DFB sources
- DFB with up to 20 mW output
- Wavelength Stability to 0.002 nm
- Over 80 DWDM Wavelengths Available
- Polarization Maintaining (PM) output available
- Front panel monitoring and control
- **3 year warranty standard**

Applications

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

Functional Diagram



8 DFB Laser Source, Rackmount | DFB-8-R

OPTIONS

DFB-w-R-xx-y-z

w	Number of Lasers up to 8
xx	Optical Power Level (mW): 10, 20 (depends on wavelength)
y	Fiber Type S, SM; P, PM
z	All C-band DWDM Wavelengths

TECHNICAL INFO

For technical info and support:

sales@optilab.com

www.optilab.com

WEB ORDER

To order, please visit OEQuest.com.

OEQuest.com

Optilab Advantage

- Innovation
- Performance
- Quality
- Customization
- Warranty

Technical Specifications	
Number of DFB	Up to 8 Lasers in One Unit
Available Wavelength Range	All C-Band DWDM Wavelengths; Custom L-Band upon Request. See Attached Table Behind. 1310 ±5 nm, 1510 ±5 nm; 1600 ±5 nm.
Wavelength Accuracy for Customization	±.05 nm
Wavelength Tuning Range	±1.0 nm
Output Power	10 mW: 10 dBm typ., 20 mW: 13 dBm typ.
Output Power Stability	±0.02 dB over 8 Hours
Wavelength Accuracy	±0.002 nm over 8 Hours
Standard Laser Linewidth	2 MHz typ., 3 MHz max.
Narrow Laser Linewidth	< 1 MHz DFB 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	Up to 6 dB Adjustment of Peak Power Output
DFB Wavelength Tuning	±1.0 nm from the center of the wavelength
Mechanical Specifications	
Operating Temperature	10° C to +50° C
Storage Temperature	-30° C to +85° 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	80 W max.
Housing Dimensions	2RU Rackmount: 15” x 19” x 3.5”
Control / Monitoring	Current, Output Power, Wavelength
Display	Current, Output Power, Wavelength
Optical Connectors	FC/APC, FC/UPC, SC/APC, SC/UPC PM FC/APC, PM FC/UPC
Optical Fiber Type	SMF-28 (Standard), PANDA for PM Output