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DFB-CWDM-M





CWDM DFB Laser Module

The Optilab DFB-CWDM-M series of products are CWDM Distributed Feedback (DFB) laser sources in a module housing, designed for general laboratory applications. The DFB-CWDM-M is a reliable and cost effective DFB laser source for providing a variety of CWDM wavelengths, from 1270nm up to 1610nm. With its simple and intuitive panel interface, the user can control the DFB light source output power level by adjusting the laser drive current, with USB monitoring, as well as provide up to 1 GHz direct modulation RF signal, all enclosed with its inclusive AC/DC power supply. Contact Optilab for more information.

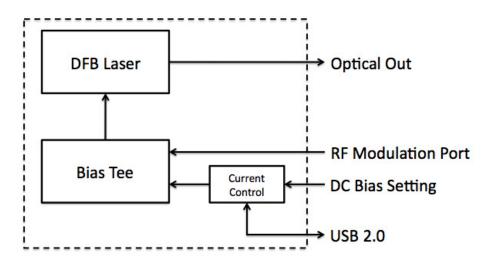
Features

- ➤ Modulation RF signal up to 1 GHz
- ➤ Wavelengths from 1270nm up to 1610nm
- ➤ Adjustable laser drive current
- ➤ USB interface remote monitoring

Applications

- ➤ Long wave (L) RFoF link
- ➤ Laboratory test and measurement
- > CWDM component qualification

Functional Diagram



CWDM DFB Laser Module | DFB-CWDM-M

OPTIONS DFB-CWDM-xxxx-M

xxxx Wavelength

TECHNICAL INFO

For technical info and support:

sales@optilab.com

www.optilab.com

WEB ORDER

To order, please visit OEQuest.com.

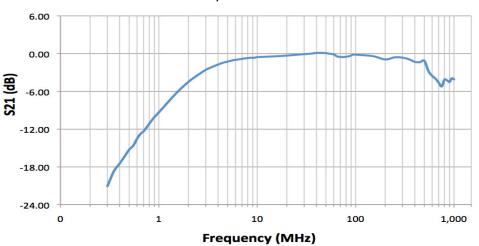


Optilab Advantage

- ➤ Innovation
- ➤ Performance
- ➤ Quality
- ➤ Customization
- ➤ Warranty

Technical Specifications		
Available Wavelength Selection	CWDM, 1270 nm - 1610 nm See attached table 1.0	
Center Wavelength Accuracy	±2.5 nm	
Output Power Level	2 mW typ.	
Output Power Stability	±0.3 dB over 8 hours	
Wavelength Stability	±200 pm over 8 Hours	
Laser Linewidth	2 MHz typ., < 1 MHz is available	
Side Mode Suppression Ratio	40 dB typ.	
Optical Isolation	30 dB typ.	
Relative Intensity Noise (RIN)	-145 dB/Hz typ. max.	
Polarization Extinction Ratio	20 dB typ.	
Additional Features		
DFB Power Output	10 -100% adjustable range	
RF Modulator Bandwidth	1 GHz typ., 2 GHz useable	
Mechanical Specifications		
Operating Temperature	10 °C to +50 °C	
Storage Temperature	-65 °C to +85 °C	
Operating Humidity	0% to 85% Relative Humidity	
Power Supply	120/220 VAC, 50/60 Hz	
Power Consumption	5 W max.	
Dimensions	150 x 114 x 30 mm	
Control / Monitoring	LD Current, Output Power	
Remote Control	USB	
Optical Connectors	FC/APC; Other options are available	
Optical Fiber Type	SMF-28	
RF Connector	SMA female	
Accessories included	USB cable	

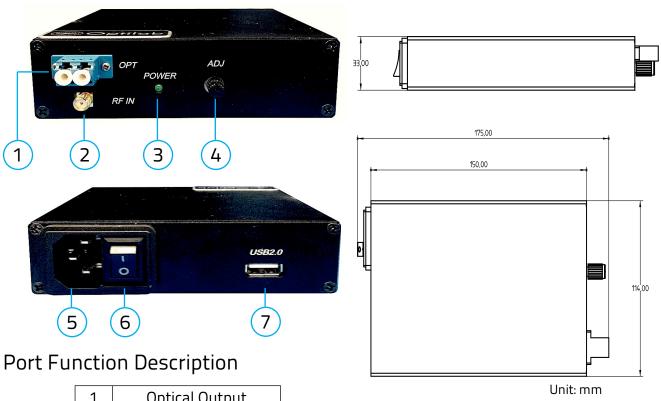
S21 Modulation Bandwidth, Normalized





CWDM DFB Laser Module | DFB-CWDM-M

Mechanical Drawing



1	Optical Output
2	RF In
3	Power LED
4	DC Current Adjust
5	AC Power Socket

4	DC Current Adjust
5	AC Power Socket
6	AC Power Switch
7	USB 2.0

Table 1.0 Available CWDM Wavelengths

Wavelength		
1270 nm	1450 nm	
1290 nm	1470 nm	
1310 nm	1490 nm	
1330 nm	1510 nm	
1350 nm	1530 nm	
1370 nm	1550 nm	
1390 nm	1570 nm	
1410 nm	1590 nm	
1430 nm	1610 nm	

