

DFB-CX-PM-M-1651



DEVICE

1651nm DFB Laser Source Module, Polarization Maintaining 12mW output, TEC Control

OVERVIEW

The Optilab DFB-CX-PM-M-1651 is a Distributed Feedback (DFB) Polarization Maintaining (PM) laser source module designed for 1651 nm coaxial laser diode. The DFB-CX-PM-M-1651 has 12mW output power, with the DFB laser's operating temperature and output power precisely controlled to ensure constant wavelength and power stability. Utilizing the USB /RS-485 port, the user can control the laser drive current and wavelength via PC interface. Contact Optilab for more information.

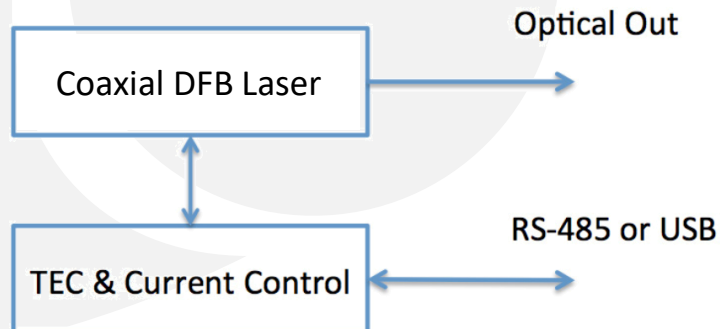
FEATURES

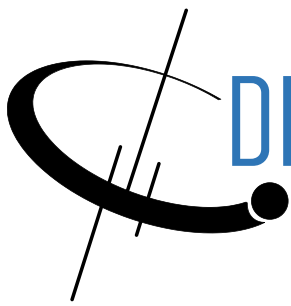
- Polarization Maintaining (PM) output
- Up to 12 mW output
- Wavelength stability to +/- 10 pm
- RS-485 or USB interface
- Wavelength tuning range: +/- 1 nm

APPLICATIONS

- Gas Sensing
- External Light source
- CWDM networks
- Laboratory testing and measurement
- HFC fiber link

FUNCTION DIAGRAM





DFB-CX-PM-M-1651

SPECIFICATIONS

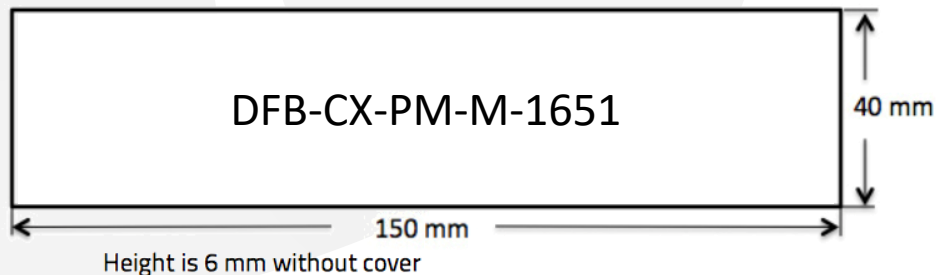
Available Wavelength Range	1651nm
Wavelength Accuracy	Within ± 50 pm
Output Power Level	12mW typ.
Output Power Stability	± 0.2 dB over 8 hours
Wavelength Stability	± 20 pm over 8 hours
Laser Linewidth	2 MHz typ
Side Mode Suppression Ratio	40 dB min.
Optical Isolation	30 dB typ.
Relative Intensity Noise (RIN)	-145 dB/Hz typ
Polarization Extinction Ratio	20 dB typ.
DFB Wavelength Tuning	± 1 nm (from wavelength center)

GENERAL

Operating Temperature	+10°C to +50°C
Operating Temperature (TQ Version)	-55°C to +70°C
Storage Temperature	-65°C to +85°C
Operating Humidity	0% to 85% Relative Humidity
Power Supply	5 V DC, 500 mA
Power Consumption	5 W max.
Dimensions	130 x 49.50 x 21 mm
Control/Monitoring	LD Current, Laser Wavelength
Remote Control	RS-485 or USB
Optical Connectors	FC/APC; Other options are available
Optical Fiber Type	PANDA for PM Output
Accessories included	USB cable, power supply

MECHANICAL

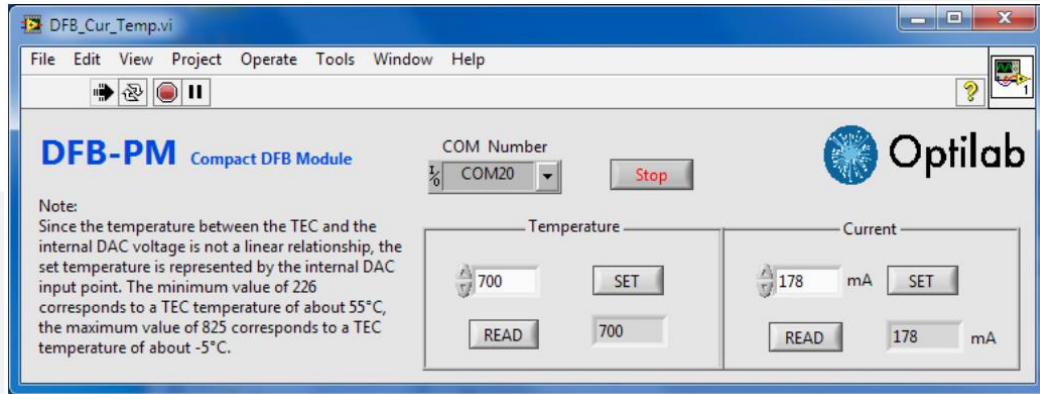
MECHANICAL DRAWING AND PIN OUT



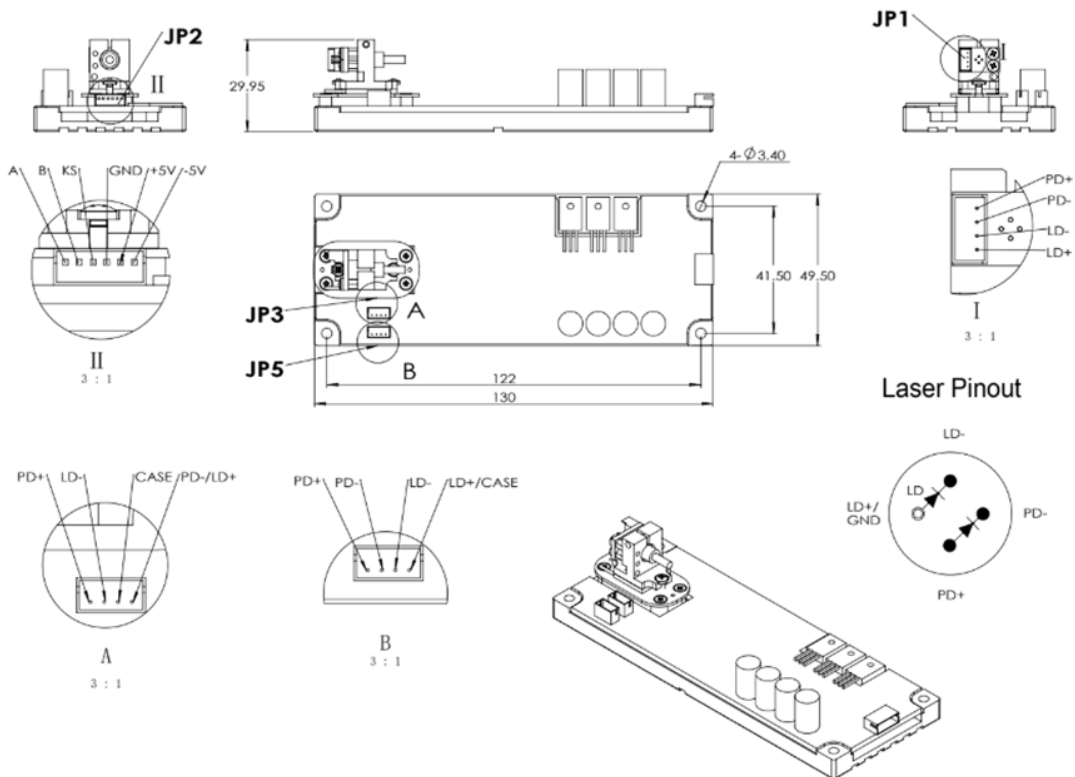
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REMOTE LABVIEW INTERFACE

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



DETAILED MECHANICAL DRAWING



OPTILAB DFB-CX-PM-M

