



DEVICE

C-Band Tunable Wavelength Laser

OVERVIEW

The Optilab TWL-C-B is a high spectral purity and stable tunable wavelength laser source. The TWL-C-B features wide wavelength tuning range, narrow laser linewidth, high Side Mode Suppression Ratio (SMSR), excellent wavelength stability and optical output level exceeding 20 mW. With the standard Polarization Maintaining (PM) fiber output, the TWL-C-B offers a linearly polarized output. These features make the cost- effective TWL-C-B well-suited for many different applications, including DWDM device testing, optical sensing, and laboratory measurement applications. TWL-C-B includes an easy-to-use LabVIEW control software and RS232 Interface for remote operation in laboratory environments. Contact Optilab for more information.

FEATURES

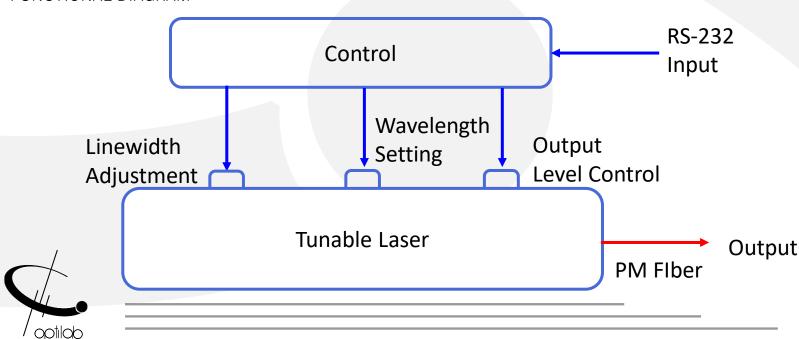
- Narrow laser linewidth of 100 kHz (Optional HP ver.)
- Excellent Side Mode Suppression Ratio of 55 dB
- Output power of 20 mW (Optional 40 mW avail.)
- Wavelength range from 1530 to 1565 nm
- Polarization Maintaining (PM) Output
- Intuitive and easy to use USB interface

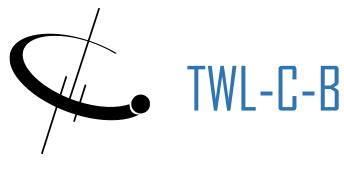
USE IN

- DWDM Networks
- Seed Lasers for modulators
- Fiber Sensors

- Laboratory testing and measurement
- Fiber Optics Components

FUNCTIONAL DIAGRAM





SPECIFICATIONS

GENERAL

1530 nm to 1565 nm
± 1.5 GHz
± 1 pm over 24 hours
20 mW typ. (40 mW ver Avail).
0.02 dB over 8 hours
N/A, (<100 KHz option available)
-150 dB/Hz typ.
55 dB typ.
20 dB typ.
30 dB min.
Panda 1550 PM Fiber
PM Narrow Key, FC/APC or Customer Specified

CONTROL FUNCTIONS

Base Frequency Range	196.1 THz to 191.5 THz
Channel Spacing	0.1 (0.2 nm)
Channel Grid	1 to 192
Channel Setting Time	10 sec. typ.
Output Power Adjustment	6 dBm from max.
Dithering Frequency	0 to 375 MHz

MECHANICAL

Operating Temperature Range	0°C to +40 °C
Storage Temperature Range	-40°C to +70°C
Power Supply	80–240 V, 43–63 Hz AC, 1.5 A max.
Power Consumption	80 W max.
Display	Output Power Level, Wavelength
Controls	Dutput Power Level, Laser Wavelength, Dithering Freq.
Communication Interface	RS 232, Labview software via laser linewidth
Alarm	Over Temperature, Over Current
Dimensions	250mm (W) x 300mm (L) x 100mm (H)

