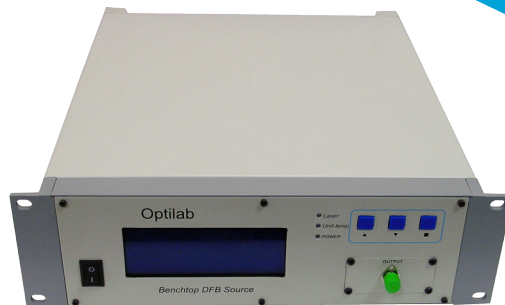


TLS-C-B



TLS-C-B

C-Band Tunable Laser with Wavelength Sweeping

The Optilab TLS-C-B is a high spectral purity and stable tunable wavelength laser source capable of sweeping the extended C-band in 100 ms. The TLS-C-B features a unique ability to either set the wavelength or sweep the entire C-band or a select section, and features wide wavelength tuning range, narrow laser linewidth, high Side Mode Suppression Ratio (SMSR), excellent wavelength stability, and optical output level up to 30 mW. With the standard Polarization Maintaining (PM) fiber output, TLS-C-B offers a linearly polarized output. These features makes TLS-C-B well suited for many different applications, including DWDM device testing, optical sensing and laboratory measurement applications. It includes an RS-232 Interface for remote operation in laboratory environments. Contact Optilab for more information.

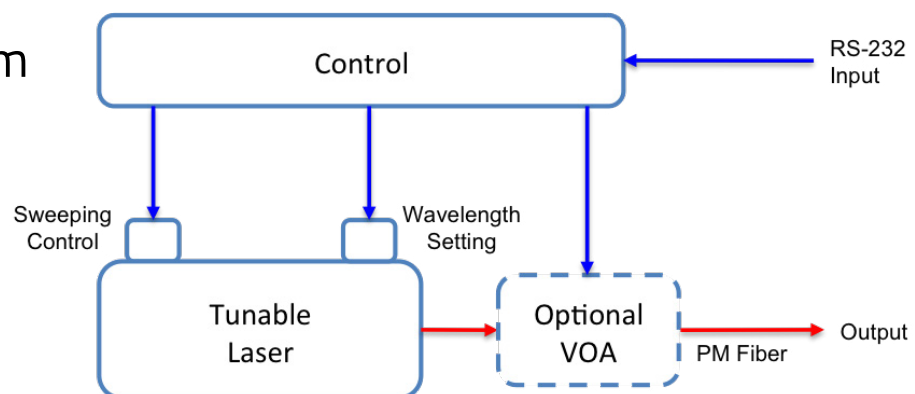
Features

- Extended tuning range from 1528 to 1568 nm
- Sweep full C-band or specific section in 100 ms
- Either set wavelength or sweep C-band
- 96 DWDM channels @ 50 GHz (0.4 nm) spacing
- Programable Sweep Rate from 1 ms to 10 sec
- High optical output power up to 30 mW
- Narrow laser linewidth of 100 kHz
- Excellent Side Mode Suppression Ratio of 55 dB
- Low RIN Noise of -150 dB/Hz
- Polarization Maintaining (PM) Output
- No dithering for coherence applications
- **3 year warranty standard**

Applications

- Laboratory Testing and Measurement
- Seed Lasers for modulators
- DWDM Networks
- Fiber Optics Components
- Fiber Sensors

Functional Diagram



C-Band Tunable Laser with Sweeping Function | TLS-C-B

OPTIONS

TLS-C-B-x-y

- x 0: 1528 nm - 1563 nm
- 1: 1528 nm - 1568 nm
- y VOA

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

Product Specification	
Optical Specifications	
Laser Wavelength Range	1530 nm to 1565 nm
Wavelength Accuracy	± 2.5 GHz
Wavelength Stability	± 5 pm over 24 Hours
Output Power Level	20 mW min., 30 mW max.
Output Power Stability	0.02 dB over 8 hours
Laser Linewidth	< 100 KHz
Relative Intensity Noise	-150 dB/Hz typ.
Side Mode Suppression Ratio	55 dB typ.
Polarization Extinction Ratio	20 dB typ.
Optical Isolation	30 dB min.
Fiber Type	Panda 1550 PM Fiber
Optical Connectors	PM Narrow Key, FC/APC or Customer Specified
Control Functions	
Laser Wavelength Range	1530 nm to 1565 nm
Base Frequency Range	196.1 THz to 191.5 THz
Wavelength Tuning	Set with 0.4 nm Step to 96 channels
Channel Stepping Delay	1 ms to 10 sec (Programmable)
Scan Time	1 ms channel-to-channel (10 Hz over entire range)
Remote Control Interface	RS-232
VOA (optional)	
Attenuation Range	40 dB
Insertion Loss	1.5 dB typ.
Input/Output	PM Fiber
Mechanical Specifications	
Operation Temperature Range	0° to +40° C
Storage Temperature Range	-40° to +70° C
Power Supply	80-240 V, 43-63 Hz AC, 1.5 A max.
Power Consumption	40 W max.
Display	Output Level, Wavelength, Sweeping Rate