

# SLD-2-B



SLD-2-B

## Super Luminescent Diode, Benchtop

The Optilab SLD-2-B are Superluminescent Light Emitting Diodes (SLED) based broadband light sources, designed for general laboratory applications. The SLD-2-B is a reliable and cost-effective benchtop unit that can accommodate up to two broadband SLED sources and can be ordered from a wide array of SLD with different wavelengths, bandwidth, and power levels. The SLED operating temperature and drive current are precisely monitored by micro-controller to ensure constant output power and emission wavelength stability. With its simple and intuitive front panel interface, the user can control the SLED source output power level by adjusting the drive current, and the optional pulsed operation mode can enable optical pulse of 10 ns rise time. Contact Optilab for more information.

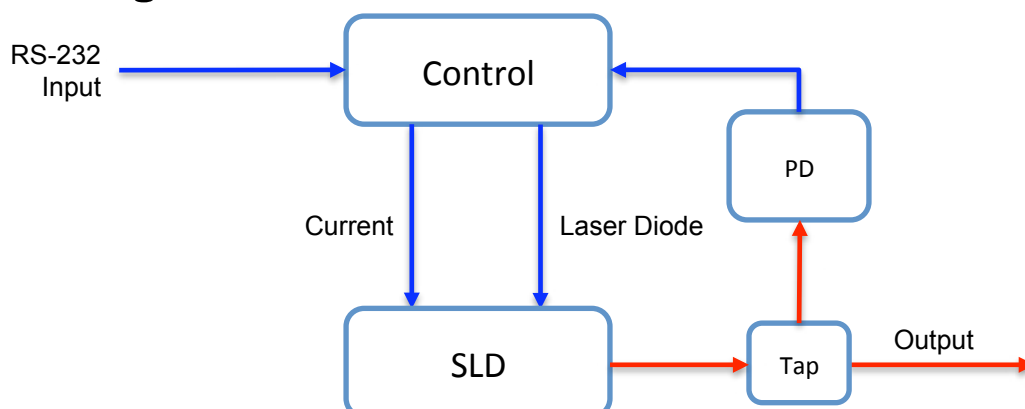
### Features

- Up to two SLEDs in one unit
- Minimal ripple in emission spectrum
- Optional pulsed operation w/ rise time of 10 ns
- Wavelengths from 670 nm - 1610 nm
- Monitoring and current control
- Optical isolator upon request
- **3 year warranty standard**

### Applications

- Fiber optic sensing
- Optical tomography
- DWDM component characterization
- Optical gyroscope

### Functional Diagram



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## OPTIONS

	<b>SLD-w-B-xx-yyyy-z</b>
w	Number of Lasers up to 4
xx	Optical Power Level (mW):
yyyy	Center Wavelength (nm)
z	M: Pulse Modulation Mode, or; I: Isolator

## TECHNICAL INFO

For technical info and support:

[sales@optilab.com](mailto:sales@optilab.com)

[www.optilab.com](http://www.optilab.com)

## WEB ORDER

To order, please visit [OEQuest.com](http://OEQuest.com).



## Optilab Advantage

- Innovation
- Performance
- Quality
- Customization
- Warranty

Technical Specifications	
Number of SLED Source	Up to 4 SLED in one unit
Available Wavelengths	670 nm to 1610 nm
Output Power	2mW
SLED control	Bias current and TEC temperature
Output Power Stability	± 0.1 dB over 8 hours
Spectral Ripple	5% typ.
Wavelength Stability	± 0.1 nm over 8 hours
Modulation Rise Time (Optional)	10 ns typ.
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 Ranges	
Channel Output Control	On/Off
SLED Drive Current	Up to 10 dB adjustment of peak power output
Mechanical Specifications	
Operating Temperature	10° C to +50° C
Storage Temperature	-10° C to +70° 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	60 W max.
Housing Dimensions	Benchtop, 16.5" x 12.5" x 5.25"
Control / Monitoring	SLED Current, Output Power
Remote Control	RS-232 via DB-9 Connector
Display	SLED Current, Output Power
Optical Connectors	FC/APC, FC/UPC, SC/APC, SC/UPC PM FC/APC, PM FC/UPC
Optical Fiber Type	Single Mode, PANDA for PM Output

Spectrum Graph at 1050 nm

