

ASE-C-B



DEVICE

Broadband ASE Source, C-Band Benchtop, 100mW

OVERVIEW

The Optilab ASE-C-B is an Amplified Spontaneous Emission (ASE) based broadband light source, designed for general laboratory applications. The ASE-C-B is a reliable and cost-effective benchtop unit that can be ordered with various output power levels. The LD operating temperature and drive current are precisely monitored by a micro-controller to ensure constant output power and emission wavelength stability. With its simple and intuitive front panel interface, the user can control the ASE source output power level by adjusting the drive current along with local and remote status monitoring, contact Optilab for more information.

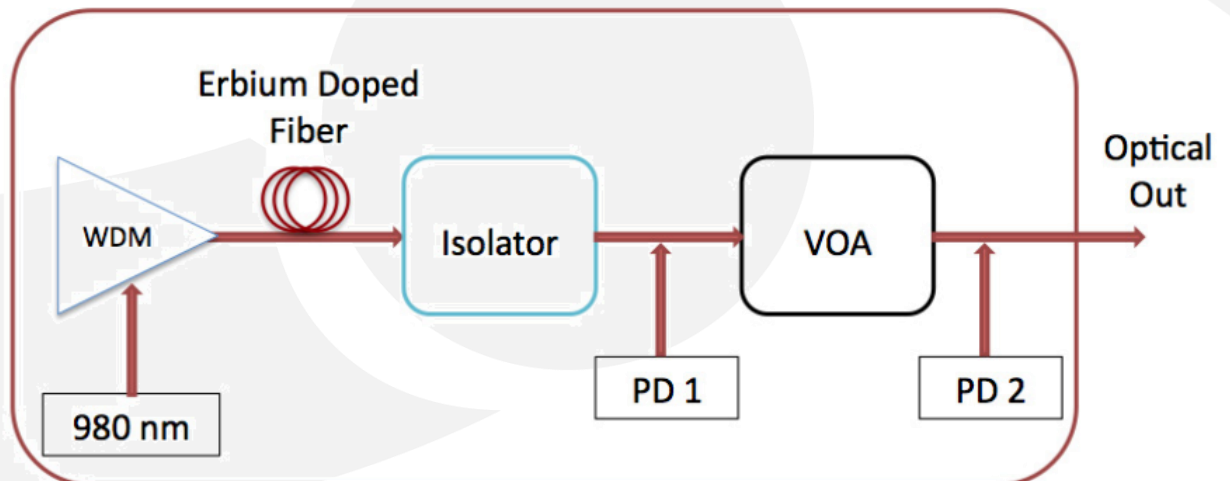
FEATURES

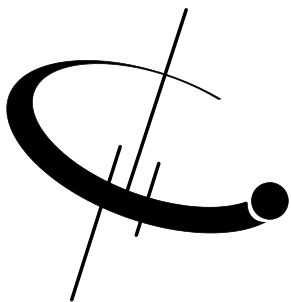
- Emission wavelength 1527 nm - 1565 nm
- Minimal ripple in emission spectrum
- 980 nm pump
- Up to 100mW Total Power
- Monitoring and control Via USB
- Optional Variable Optical Attenuator

USE IN

- Fiber Optic Sensing
- Optical Tomography
- DWDM component characterization
- Optical gyroscope

FUNCTION DIAGRAM





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SPECIFICATIONS

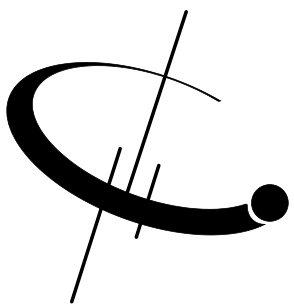
Wavelength Range	1527 nm to 1565 nm
Spectral Flatness	± 2.5 dB
Output Power	50 and 100mW
LD control	Bias current
Output Power Stability	± 0.5 dB over 8 hours
Spectral Ripple	5% typ.
Center Wavelength Stability	± 0.1 nm over 8 hours
Side Mode Suppression Ratio	45 dB typ.
Optical Isolation	30 dB min.
Output Control	On/Off
Variable Optical Attenuator	Up to 20 dB adjustment

GENERAL

MECHANICAL

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, 280 x 87 x 323 mm
Control / Monitoring	Pump Current, Output Power, VOA
Remote Control	RS-232 via USB
Display	Pump Current, Output Power
Optical Connectors	FC/APC and other options
Optical Fiber Type	SMF-28





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TYPICAL OPTICAL SPECTRUM

