

# SOA-1064-B



## DEVICE

# Semiconductor Optical Amplifier, 1064nm

## OVERVIEW

The Optilab SOA-1064-B is a semiconductor optical amplifier with high fiber-to-fiber gain, designed to be used in general applications to increase optical launch power to compensate for loss of other optical devices. The SOA-1064-B can be ordered with Single Mode (SM) or Polarization Maintaining (PM) fiber input/output. The SOA-1064-B has an operational wavelength: range between 1050nm to 1080nm. The Benchtop unit incorporates a user-friendly front panel housing with a LCD monitor display, key switch, power adjust control and optical a remote USB computer interface.

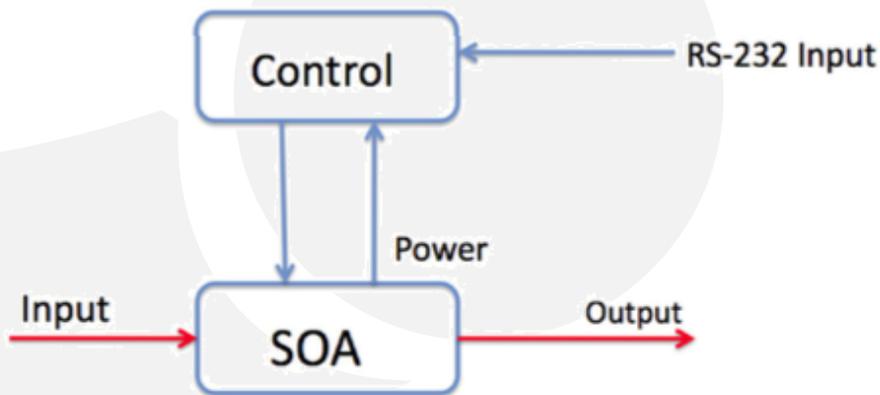
## FEATURES

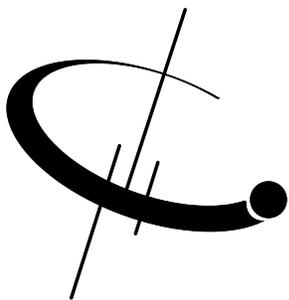
- 1050nm – 1080nm wavelength
- High fiber-to-fiber gain range of 40 dB
- Up to 18 dBm output
- PM Panda fiber input/output (optional)

## USE IN

- Booster and in-line amplification
- Optical network
- General purpose test and measurement
- Fiber sensing

## FUNCTION DIAGRAM





# SOA-1064-B

## SPECIFICATIONS

Operating Wavelength	1050nm - 1080nm
Saturated Output Power @ -3 dB input	+18 dBm
Fiber-to-fiber Gain	Up to 40 dB @ small signal input
Noise Figure	8 dB typ.
Gain Ripple	0.3 dB typ.
Input Optical Return Loss	-55 dB typ.
Input/Output Isolation	30 dB min. (w/ isolator option)
Polarization Dependent Gain (PDG)	0.5 dB max
Polarization Extinction Ratio (PM type)	20 dB typ.
Power Stability	± 0.1 dB over 8 hours
Output Current Control	10% to 100% operating current

## GENERAL

Operating Temperature	10 °C to +50 °C
Storage Temperature	-10 °C to +70 °C
Operating Humidity	0% to 85% Relative Humidity
Fiber Type (Standard)	SMF-28 Input, SMF-28 Output
Fiber Type (PM) Version	PANDA PM Input, PANDA PM Output
Controls/Monitoring	Input/Output Monitor, Current Control via RS-232
Alarms	Overheat Warning
Power Supply	88 - 240 V, 43 - 63 Hz AC
Dimensions	16.5" x 12.5" x 5.25"

## MECHANICAL

