



DEVICE

Semiconductor Optical Amplifier, 1250-1350nm, Benchtop

OVERVIEW

The Optilab SOA-1310-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- 1310-R can be ordered with Single Mode (SM) or Polarization Maintaining (PM) fiber input/output, with this particular SOA module having broadband amplification from 1250nm to 1350nm wavelengths, in a benchtop. It requires only AC power cord with low power consumption, with a full software control and monitoring via RS232 serial communication protocol.

FEATURES

- Wideband 1250nm 1350nm amplification
- High fiber-to-fiber gain 19 dB
- Up to 16 dBm output

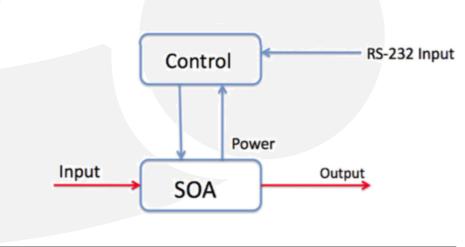
- Benchtop
- PM Panda fiber input/output (optional)
- Front touch screen control

USE IN

- Booster and in-line amplification
- Optical network

- General purpose test and measurement
- Fiber sensing

FUNCTION DIAGRAM







SPECIFICATIONS

GENERAL

Operating Wavelength	1250nm to 1350nm
Saturated Output Power @ -3 dB input	+16 dBm typ.
Input Power	-25 ~ +5 dBm
Fiber-to-fiber Gain	Up to 20 dB @ small signal input
Noise Figure	7 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

MECHANICAL

-10°C to +60°C
-40°C to +70°C
80 - 240 V, 43 - 63 Hz AC
60 W max.
Pump Lasers Current Adjustment
Pump Laser Temperature
LabVIEW via USB
Input/Output Power Level, TEC Temperature
Temperature and Input Power
FC/APC, SC/APC, Other Types Optional
250mm (W) x 300mm (L) x 100mm (H)

OPTIONS

SOA-1310-XX-B

XX SM: Single Mode, PM: Polarization Maintaining





RELATED MODULE

SOA-1310-M



The Optilab SOA-1310-M is a semiconductor optical amplifier with high fiber-to- fiber gain for OEM integration in MSA housing.

