

SOA-1310-BP

DEVICE 1310 nm Semiconductor Optical Amplifier, Butterfly Package

The Optilab SOA-1310-BP 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, or as a broadband ASE source. For increased utility, the SOA-1310-BP can be ordered with either Single Mode (SM) or Polarization Maintaining (PM) fiber input and output ports. The Optilab SOA-1310-BP has an operational wavelength between 1250 nm and 1350 nm, with a peak gain of a typical 20 dB within that region. The 14-pin butterfly packaging is MSA compliant and laser-welded hermetically sealed, with a thermistor and thermoelectric cooler (TEC) for ensured reliability, stability and performance.

FEATURES

USE IN

OVERVIEW

- 1250nm-1350nm operational wavelength
 - High-fiber-to-fiber gain of 20 dB typ.
 - Up to 13 dBm output
 - Built in TEC
- Swept Fiber Laser
 - Booster and in-line amplification
 - General purpose test and measurement

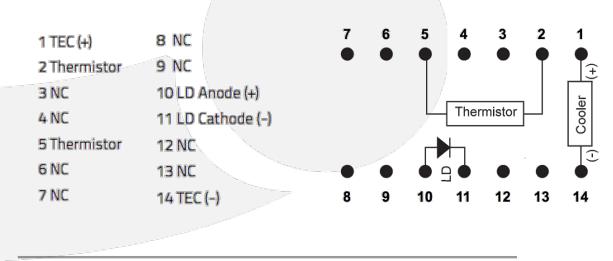
- 14 pin butterfly, hermetically sealed package
- PM Panda fiber input/output (optional)
 - Optical network

SOA-1310-BP

• Fiber sensing

PIN-OUT DIAGRAM

optilob





SOA-1310-BP

OPERATING
SPECIFICATIONS

Operational Wavelength	🔪 1250 nm – 1350 nm
Peak Gain	19 dB min., 20 dB typ.
Gain Ripple	±1 dB max.
Polarization Dependent Gain (PDG)	±1 dB max.
Saturation Output Power	13 dBm typ.
Forward Voltage	2 V typ.
Operating Bias Current	350 mA type
Thermistor Resistance	10 k Ω typ. 🗉 25°C
Connectors	FC/APC, others optional

ABSOLUTE MAXIMUM RATINGS

Operating Temperature (Case)	-10°C to +70°C, TQ version available
Storage Temperature	-40°C to +85°C
Operating Humidity	0% to 85% Relative Humidity
Operating Bias Current	450 mA
Optical Amplimer Reverse Bias	2 V
Thermistor Current	5 mA
TEC Current	1.8 A
TEC Voltage	3.4 V

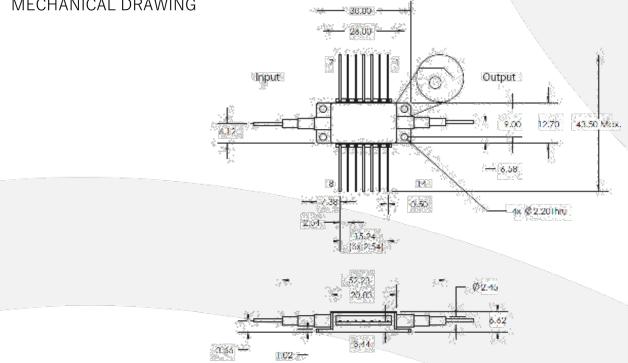
OPTIONS

SOA-1310-BP-XX

XX SM: Single Mode or PM: Polarization Maintaining

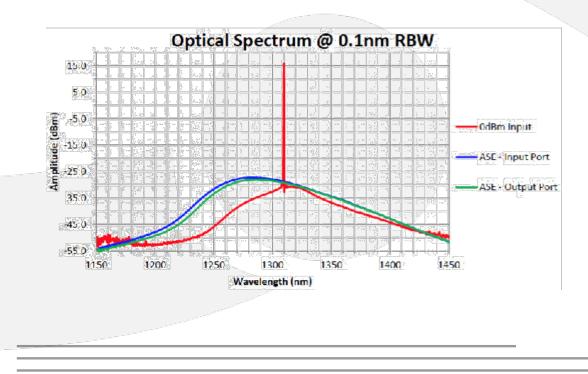






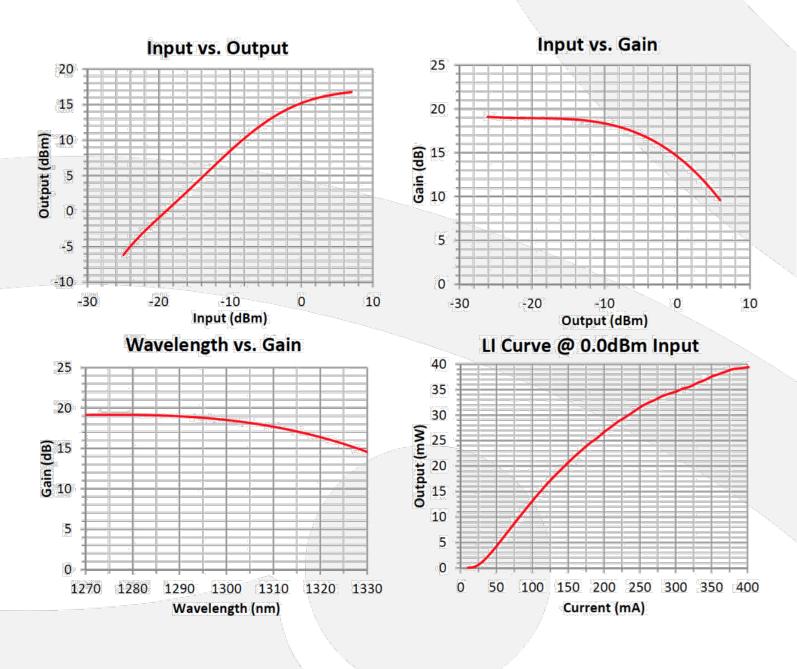
DETAILED SPECTRUM INFORMATION

optilab





DETAILED SPECTRUM INFORMATION





Product specifications and description are subject to change without notice. © 2018 Optilab, LLC. SOA-1310-BP. Oct 2018 Rev. 1.0