

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

OVERVIEW

- 1250nm-1350nm operational wavelength
 - High-fiber-to-fiber gain of 20 dB typ.
 - Up to 14 dBm output
 - Built in TEC

• 14 pin butterfly, hermetically sealed package

Optilab

SOA-1310-BP

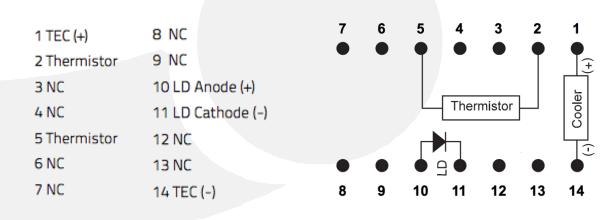
 PM Panda fiber input/output (optional)

USE IN

• Swept Fiber Laser

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

PIN-OUT DIAGRAM







SOA-1310-BP

OPERATING	Operational Wavelength	1250 nm – 1350 nm
SPECIFICATIONS	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.
	Input Power	-25 ~ +5 dBm
	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	Operating Temperature (Case)	-10°C to +70°C, TQ version available
RATINGS	Storage Temperature	-40°C to +85°C
NATING5	Operating Humidity	0% to 85% Relative Humidity
	Operating Bias Current	400 mA
	Optical Amplimer Reverse Bias	2 V
	Thermistor Current	10kΩ NTC

OPTIONS

SOA-1310-XX-BP

TEC Current TEC Voltage

XX SM: Single Mode or PM: Polarization Maintaining

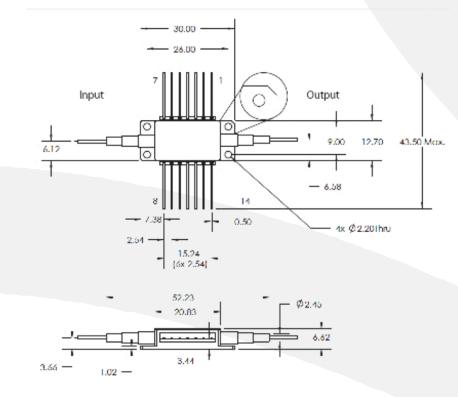
1.8 A

3.4V



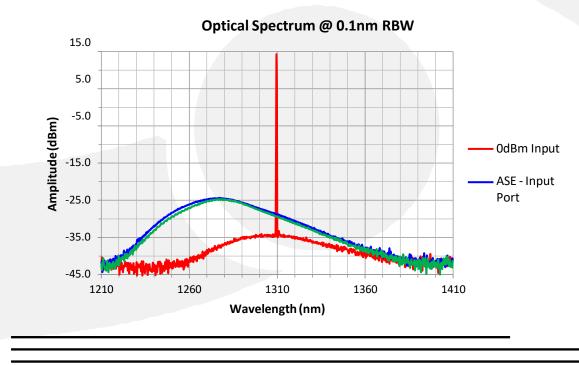


MECHANICAL DRAWING



DETAILED SPECTRUM INFORMATION

optilob





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.

