



## DEVICE Semiconductor Optical Amplifier, 1450-1600nm

- OVERVIEW The Optilab SOA-1550-M is a semiconductor optical amplifier with high fiber-tofiber gain, designed to be used in general applications to increase optical launch power to compensate for loss of other optical devices. The SOA- 1550-M can be ordered with Single Mode (SM) with this particular SOA module having broadband amplification from 1450nm to 1600nm wavelengths, in a compact OEM module form factor based upon MSA requirements. This module version is an ideal building block for system integrators, especially in optical communication networks and CATV applications. It requires only a single +5V power supply with low power consumption, with a full software control and monitoring via RS232 serial communication protocol.
- Wideband 1450nm 1600nm amplification
  - High fiber-to-fiber gain 20 dB
- Compact OEM design for MSA form factor
- Up to 16 dBm output

## USE IN

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





## SOA-1550-M

SPECIFICATIONS	Operating Wavelength	1450nm to 1600nm
	Saturated Output Power @ -3 dB inpu	t +16 dBm typ.
	Input Power	-25 ~ +5 dBm
GENERAL	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	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 Dutput
	Connector (Power and Control)	2 x 15 pin header, 2.0 mm pitch
	Controls/Monitoring	nput/Output Monitor, Current Control via RS-232
	Alarms	Overheat Warning
	Power Supply	5 V DC
	Dimensions	90mm x 70mm x 19.7mm









ACCESSORIES







5V Power Adapter (Included)

30 PIN Cable (Included) Adapter Box (Included)

