



DEVICE

Semiconductor Optical Amplifier, 1450-1600nm, Rackmount

OVERVIEW

The Optilab SOA-1490-R 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- 1490-R can be ordered with Single Mode (SM) or Polarization Maintaining (PM) fiber input/output, with this particular SOA module having broadband amplification from 1450nm to 1600nm wavelengths, in a standard 1U rackmount housing. It requires only AC power cord with low power consumption, with a full software control and monitoring via RS232 serial communication protocol.

FEATURES

- Wideband 1450nm 1600nm amplification
- High fiber-to-fiber gain 20 dB
- Up to 16 dBm output

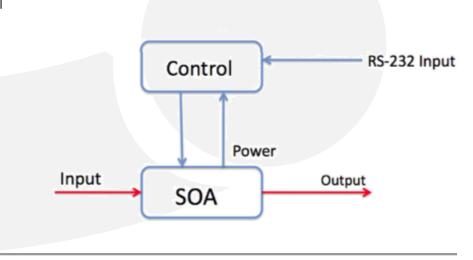
- Standard 1U rackmount
- PM Panda fiber input/output (optional)
- 3-year warranty standard

USE IN

- Booster and in-line amplification
- Optical network

- General purpose test and measurement
- Fiber sensing

FUNCTION DIAGRAM







SPECIFICATIONS

GENERAL

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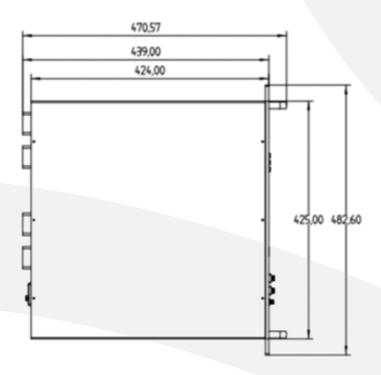
MECHANICAL

Operating Temperature	-10°C to +60°C
Storage Temperature	-40°C to +70°C
Power Supply Requirements	80 - 240 V, 43 - 63 Hz AC
Power Consumption	60 W max.
Output Level Control	Pump Lasers Current Adjustment
Monitoring	Pump Laser Temperature
Computer Interface	LabVIEW via USB
Display	Input/Output Power Level, TEC Temperature
Alarms	Temperature and Input Power
Optical Connectors	FC/APC, SC/APC, Other Types Optional
Housing Dimensions	1RU 482.60 (L) x 470.57 (W) x 44.00 (H) (mm)





MECHANICAL DRAWING



RELATED MODULE

SOA-1490-M



The Optilab SOA-1490-M is a semiconductor optical amplifier with high fiber-to- fiber gain for OEM integration in MSA housing.

