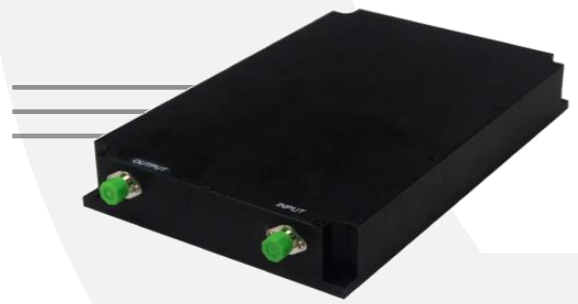


# EDFA-PA-PM-M



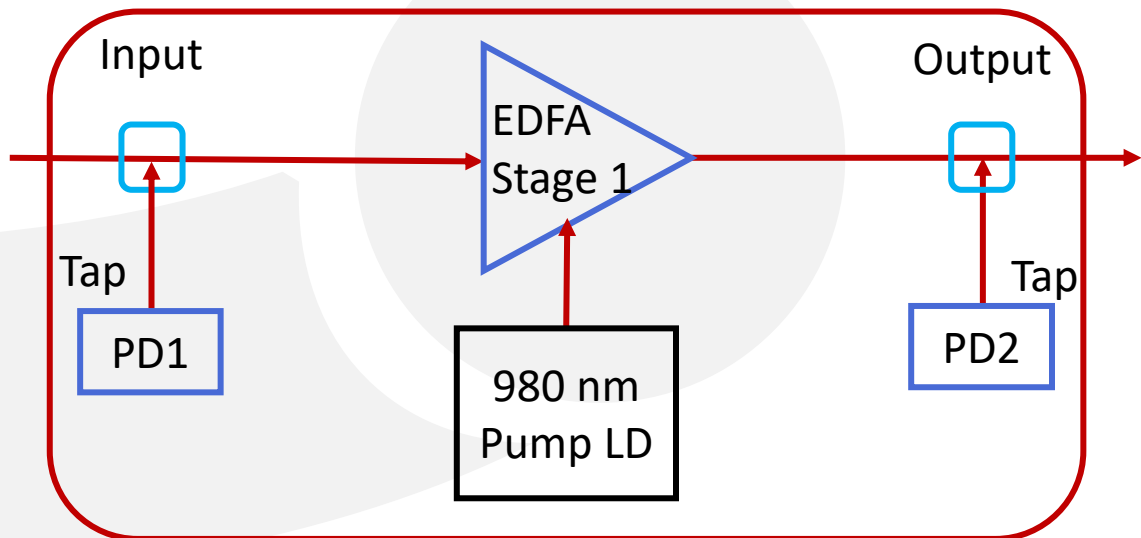
## DEVICE 25 dB Gain Pre-Amp EDFA Module w/PM Output, C-band

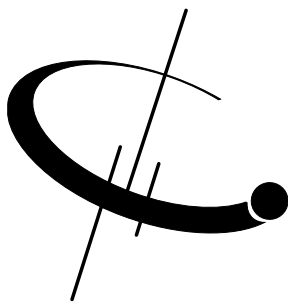
**OVERVIEW** The Optilab EDFA-PA-PM-M Pre-Amp EDFA is a Polarization Maintaining (PM) high-gain module for amplifying low input level signals that is an easy-to-use and cost-efficient solution for photonic subsystems, OEM integration, and fiber optic system integration. Using a high gain design, this module provides over 25 dB gain with a 4.5 dB noise figure and is designed to amplify signal with a low input level as low as -40 dBm. Software control is standard via an RS-232 port for status monitoring and pump current adjustments, and pump laser protection and alarms are equipped to ensure the reliability and safety of the device. The EDFA-PA-PM-M requires a single  $\pm 5$  Volt DC power supply for operation. Contact Optilab for more information.

- FEATURES**
- High gain of more than 25 dB
  - PM Output
  - Designed for low input level
  - Wide wavelength operation range
  - 10+ years of operation life
  - RS-232 standard for remote control

- USE IN**
- OEM integration for
    - Optical Networks
    - Research and Development
    - RF over Fiber
  - Pulse Amplification

### FUNCTIONAL DIAGRAM





# EDFA-PA-PM-M

## SPECIFICATIONS

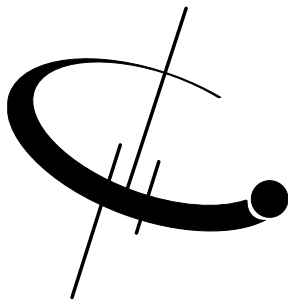
Operating Range	1528nm to 1563nm
Output Power Levels	+15 dBm @ 0 dBm typ.
Optical Gain	25 dB min. @ -40 dBm input
Noise Figure	4.5 dB typ. 5.0 dB max.
Optical Return Loss	50 dB min
Input Optical Isolation	30 dB min.
Output Optical Isolation	30 dB min.
Polar. Mode Dispersion	0.1 ps max.
Polar. Dependent Gain	0.1 dB max.
Input Power Range	-40 dBm to +5 dBm
Output Power Stability	0.15 dB over 8 hours
Input/Output Fiber Type	PANDA PM

## GENERAL

Operating Temperature	-10 °C to +70 °C
Power Supply	+5 V DC, 5.0 A max.
Power Consumption	20 W max.
Fiber Type	SMF-28
Fiber Jacket	900µm
Connector Type	FC/APC
Connector (power & control)	DB-25 Male
Display	LEDs for On/Off, Power
Remote Control	RS-232 for laser control, status monitoring
Dimensions	210mm x 135.2mm x 28 mm

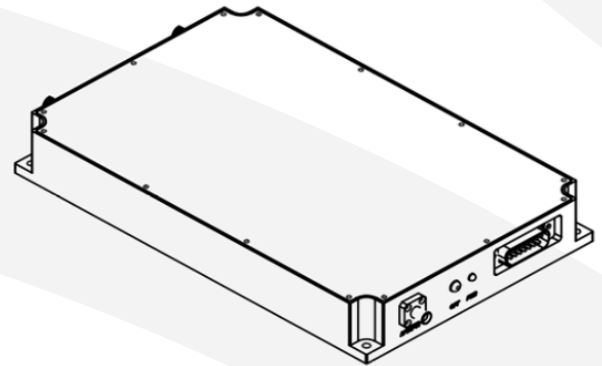
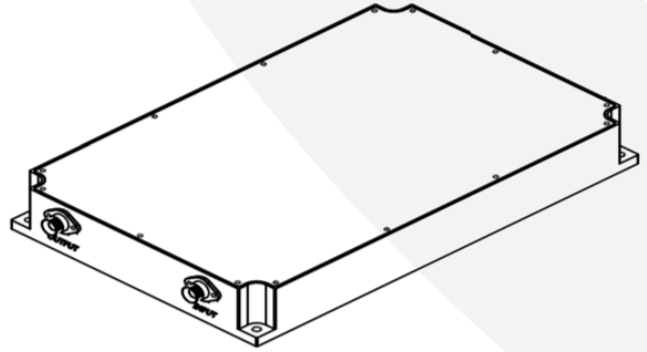
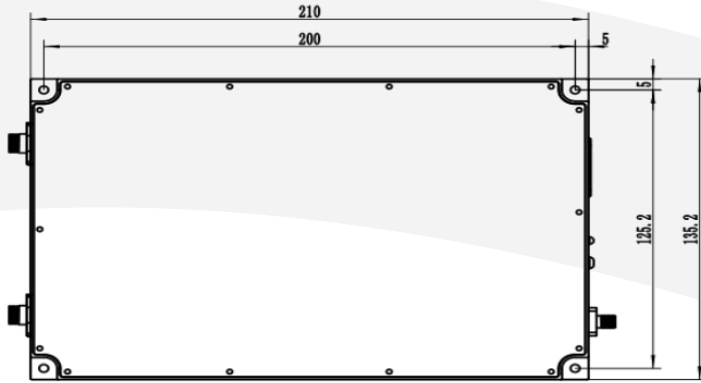
## MECHANICAL





# EDFA-PA-PM-M

## MECHANICAL DRAWING



## RELATED AMPLIFIER

- **EDFA-PA-LN-M**



The Optilab EDFA-PA-LN-M Pre-Amp EDFA is a low noise and high-gain module for amplifying low input level signals. Contact Optilab for more details

