

EDFA-PA-LN-M



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Low Noise, High Gain Pre-Amp EDFA Module

The Optilab EDFA-PA-LN-M Pre-Amp EDFA is a low noise and high-gain module for amplifying low input level signals that is an easy-to-use and cost-efficient solution for photonic subsystems, OEM integration, free space communication, and satellite/ground link. Using a dual stage design, this module provides over 50 dB gain with maximum 4.5 dB noise figure and is designed to amplify signal with a low input level as low as -60 dBm. Software control is standard via an RS-232/485 port for status monitoring and pump laser protection are designed to ensure the reliability of the device. The EDFA-PA-LN-M requires a single ± 5 Volt DC power supply for operation that comes included with each unit. Contact Optilab for more information.

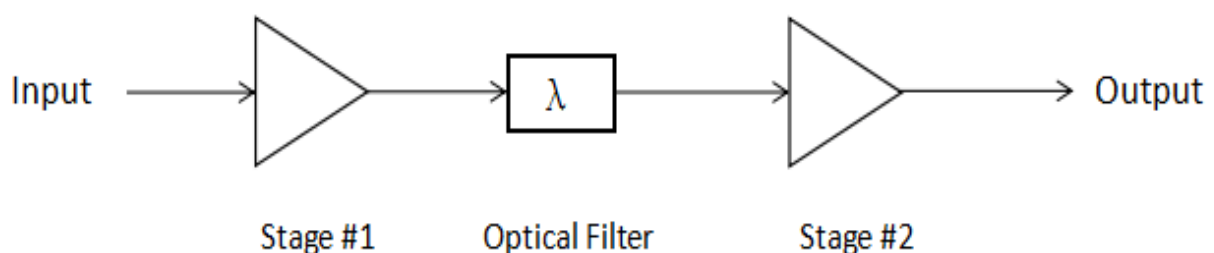
Features

- Optical gain up to 50 dB
- Low noise figure < 4.5 dB
- Low input level to -60 dBm
- RS-232/485 for remote control
- Wide wavelength range
- Space Qualification Available

Applications

- Subsystem Integration for optical links
- Free Space Communication
- Satellite/Ground Link
- Research Development

Functional Diagram



Low Noise, High Gain Pre-Amp EDFA | EDFA-PA-LN-M

OPTIONS

EDFA-PA-LN-XX-M

XX: Gain

40 40dB

50 50dB

TECHNICAL INFO

For technical info and support:

sales@optilab.com

www.optilab.com

Optical Specifications	
Center Wavelength	1540 nm to 1566 nm*
Operating Window	±1.0 nm typ. (Customizable)
Output Power Levels	10 dBm max.
Optical Gain	50 dB typ.
Input Power Range	-60 dBm to -40 dBm
Noise Figure	4.0 dB typ., 4.5 dB max.
Optical Return Loss	50 dB min.
Input/Output Isolation	30 dB min.
Polar. Mode Dispersion	0.1 ps max.
Polar. Dependent Gain	0.1 dB max.
Output Power Stability	0.1 dB over 8 hours

*Specify center wavelength when ordering

WEB ORDER

To order, please visit OEQuest.com.



Optilab Advantage

- Innovation
- Performance
- Quality
- Customization
- Warranty

Mechanical Specifications	
Operating Temperature	-10° to +70° C
Storage Temperature	-45 °C to +85 °C
Operating Humidity	90%, non-condensing
Power Supply	+5 V DC, 5.0 A max.**
Power Consumption	20 W max.
Fiber Type	SMF-28
Fiber Jacket	900 µm
Connector Type	FC/APC or others
Connector (power and control)	DB-25 Male**
Display	LEDs for On/Off, Power
Remote Control	RS-232/485
Dimensions	150mm x 125mm x 23mm

**Power supply and cables are included

