EDFA-PA-B

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25 dB Gain Pre-Amp EDFA Benchtop

The Optilab EDFA-PA-B Pre-Amp Erbium-Doped Fiber Amplifiers is a high-gain benchtop unit 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. With options for C-band or L-band wavelengths, and using a high gain design, this benchtop 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 reliabilty and safety of the device. Contact Optilab for more information.

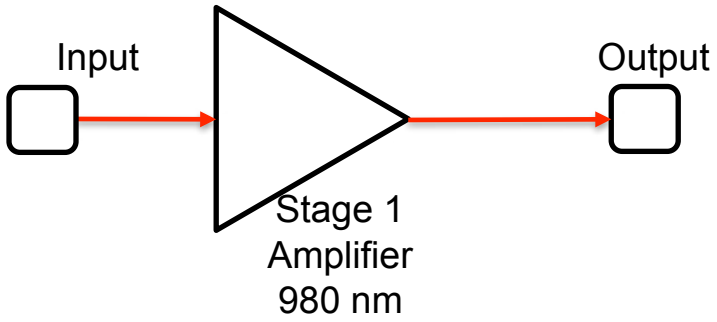
Features

- High gain of more than 25 dB
- C-band or L-Band wavelength options
- Low noise figure
- Designed for low input level
- RS-232 standard for remote control
- Wide wavelength operation range
- 10+ years of operation life

Applications

- OEM integration for
  - DWDM networks
  - HFC/CATV
  - RFoG/PON
- Photonic subsystems
- Fiber optic link amplification

Functional Diagram



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OPTIONS

EDFA-PA-x-B

x

1528 nm to 1563 nm for C-Band,
1565 nm to 1625 nm for L-Band,

TECHNICAL INFO

For technical info and support:

sales@optilab.com

www.optilab.com

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- Innovation
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Optical Specifications	
Operating Range	1528 nm to 1563 nm for C-Band, 1565 nm to 1625 nm for L-Band
Output Power Levels	+14 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	Corning SMF-28
Mechanical Specifications	
Operating Temperature	-10° to +70° C
Power Supply	80 - 240 V, 43 - 63 Hz AC
Power Consumption	40 W max.
Fiber Type	SMF-28
Fiber Jacket	900 µm
Connector Type	FC/APC
Connector (power and control)	DB-25 Male
Display	LEDs for On/Off, Power
Remote Control	RS-232 for laser control, status monitoring
Dimensions	Benchtop, 16.5" x 12.5" x 5.25"