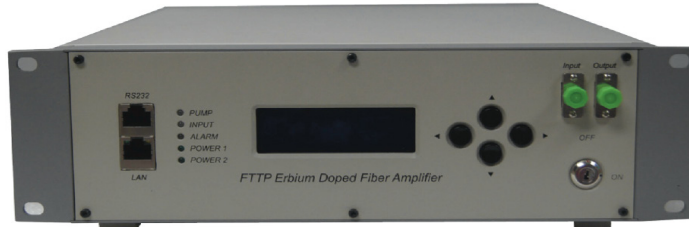


EDFA-I-B



EDFA-I-B

Inline Erbium-Doped Fiber Amplifier, Benchtop

The Optilab EDFA-I-B Erbium-Doped Fiber Amplifier (EDFA) is a high gain, inline amplifier for the research and development of optical networks. By using a dual amplifier design, EDFA-I-B provides optical gain of up to 40 dB while maintaining low noise figure (NF). EDFA-I-B is a versatile amplifier that can be used for very a range of input levels. Depending on the pump laser configuration, EDFA-I-B amplifier produces optical output levels from +18 dBm to +25 dBm with an input power level range from -15 dBm to +5 dBm. Contact Optilab for more information.

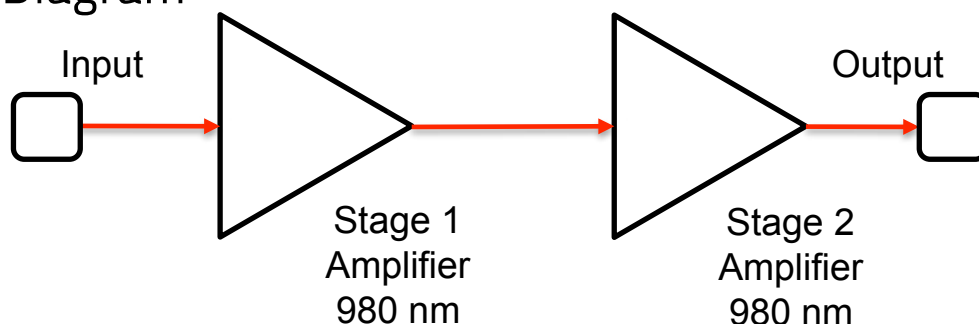
Features

- Reliable 980 nm and 1480 nm pump lasers
- Continuously regulated by microcontroller
- Forward and backward pumping
- Input power level range: -15 dBm to +5 dBm
- Optical gain up to +40 dB
- Automatic Current Control (ACC) (standard)
- Automatic Power Control (APC) (optional)
- LCD digital display and LED status indicators
- Software control through RS-232

Applications

- Laboratory Test and Measurement
- Test Intstrumentation
- R&D

Functional Diagram



Inline Erbium-Doped Fiber Amplifier, Benchtop | EDFA-I-B

OPTIONS

EDFA-I-xx-B

xx Output power level +18 – +25 dBm

TECHNICAL INFO

For technical info and support:

sales@optilab.com

www.optilab.com

WEB ORDER

To order, please visit OEQuest.com.



Optilab Advantage

- Innovation
- Performance
- Quality
- Customization
- Warranty

| Optical Specifications | |
|--------------------------------|-------------------------------------|
| Operating Range | 1530 nm to 1565 nm |
| Output Power Levels | +18 dBm to +25 dBm |
| Input Power Range | -15 dBm to +5 dBm |
| Optical Gain | Up to 40 dB |
| Noise Figure (NF) | 5.2 dB max. @ -10 dBm Input |
| Number of Outputs | 1 output standard |
| Optical Return Loss | 50 dB min. |
| Input/Output Optical Isolation | 30 dB min. |
| Polarization Mode Dispersion | 1.0 ps max. |
| Polarization Dependent Gain | 0.15 dB max. |
| Output Power Stability | 0.15 dB over 8 hours |
| Input/Output Fiber Type | Corning SMF-28 |
| Mechanical Specifications | |
| Operating Temperature | 0° C to +50° C |
| Storage Temperature | -40° C to +70° C |
| Power Supply Requirements | 80 - 240 V, 43 - 63 Hz AC |
| Power Consumption | 60 W max. |
| Control | Pump Laser Current Adjustment |
| Monitoring | Pump Laser Temperature |
| Computer Interface | SNMP (Optional) |
| Display | Output Power Level, TEC Temperature |
| Alarms | Temperature and Current Threshold |
| Optical Connectors | FC/APC, SC/APC |
| Housing Dimensions | Benchtop, 16.5" x 12.5" x 5.25" |