



EYDFA-P-37-B



DEVICE

+37 dBm Pulsed EYDFA Amplifier Benchtop

OVERVIEW

The Optilab EYDFA-P-37-B is designed to amplify optical signals up to 37 dBm average power for high power applications at 1550 nm wavelength range. The EYDFA-P-37-B incorporates two stages of amplification based on multi-mode pumping technology using Er/Yb double clad fiber. The optical gain of the amplifier exceeds 50 dB via the EDFA pre-amplifier, which allows a low input signal level of -20 dBm. The EYDFA-P-37-B utilizes large core fiber technology to remove Raman scattering, which causes nonlinear amplification and is equipped with LabVIEW user interface and remote control. The EYDFA-P-37-B can be ordered with an SMF collimator and other options Contact Optilab for more information.

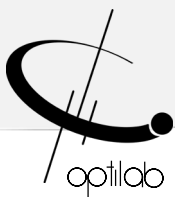
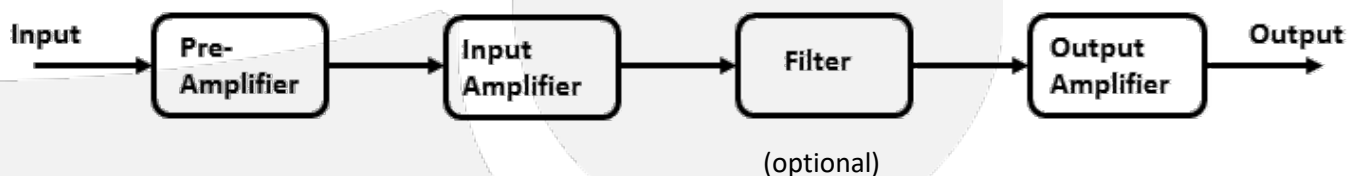
FEATURES

- Amplifies from 1540 nm to 1564 nm
- High Gain of 50 dB with Pre-amp
- Up to 5 W CW output power
- Pulsed Amplification up to kW level
- Large Core Fiber Technology
- Mid-stage Filter (optional)
- Fully integrated with power supply

USE IN

- Free Space Communication
- Optical Network Amplification
- LIDAR Source
- Research and Development
- Second Harmonic Generation
- Test and Measurement

FUNCTIONAL DIAGRAM





EYDFA-P-37-B

SPECIFICATIONS

Operating Wavelength	1540 nm to 1564 nm
CW Output Power	Up to 37 dBm
Optical Gain	> 50 dB @ -15 dBm input
Optical Input Level	-20 to +6 dBm (with Pre-amp)
Output Stability (short term)	± 0.2 dB
Control Mode	ACC (Adjustable Current)
Noise Figure	< 5 dB typ.
Amplifying Medium	Large core Er/Yb doped, double clad fiber

OPTICAL

Operating Temperature	0°C to +50°C
Storage Temperature	-40°C to +70°C
Humidity	10% to 90%
Power Supply, Internal	95V-125 V AC, 2.8 A
Controls/Monitoring	LCD Display
Communication Interface	USB/Labview
Dimensions	420 (L) x 163 (W) x 68 (H) (mm)
Power Consumption	< 150 W
Cooling Ventilation	Air cool
Fiber Type	SMF-28
Input Fiber	FC/APC input
Output Fiber	Bare Fiber (standard), Collimator (optional), High Power Connector (optional)

MECHANICAL

COLLIMATING LENS (EXAMPLE)

Nominal Beam Diameter	0.45 mm
Working Distance	10 mm
Typical Insertion Loss	0.25 dB
Maximum Optical Power Handling	20 W
Input Fiber-Type	SMF 28

HIGH POWER CONNECTOR

Input Fiber Type	SMF 28
Maximum Optical Power Handling	10 W
Connector Type	FC/APC

