

EYDFA-XX-R



DEVICE

Erbium Ytterbium Doped Fiber Amplifier, Up to 37 dBm, Rackmount

OVERVIEW

The Optilab EYDFA-XX-R Erbium Ytterbium Doped Fiber Amplifier (EYDFA) is a high-power, versatile amplifier designed for MOPA, optical communication and other general-purpose optical applications. Based on multi-mode pumping Er/Yb double clad fiber technology, EYDFA-XX-R is designed to produce high output power up to 37 dBm. By using a dual stage design, EYDFA-XX-R provides optical gain of up to 50 dB (with optional Pre- Amp), while maintaining low noise figure (NF) of 5 dB. The EYDFA-XX-R amplifier produces optical output level of +37 dBm with an input power level range from -3 dBm to +7 dBm. Featuring adjustable output level power via ACC through the front panel and software control through USB. Contact Optilab for more information.

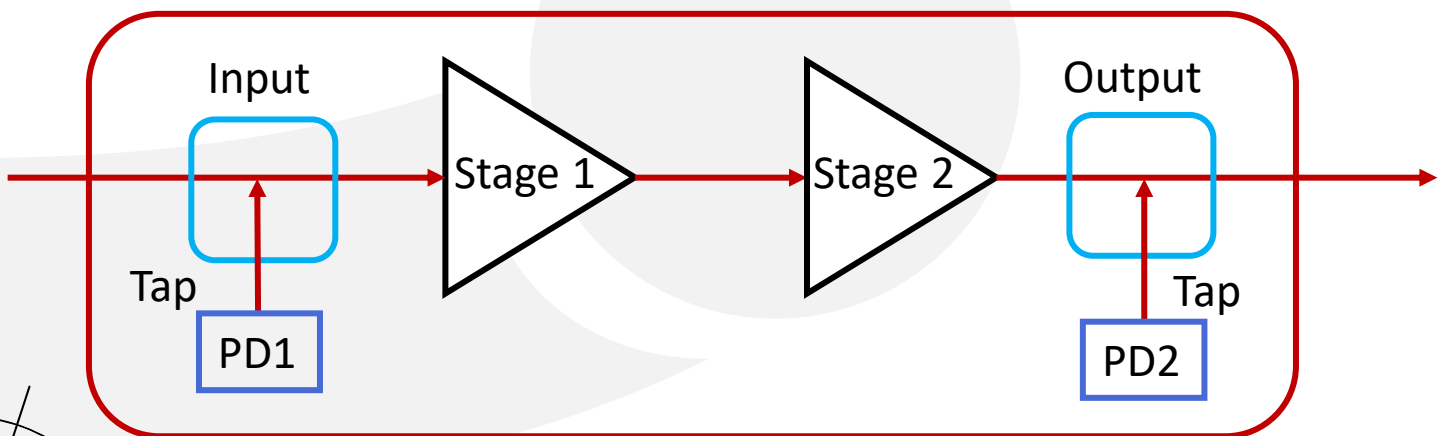
FEATURES

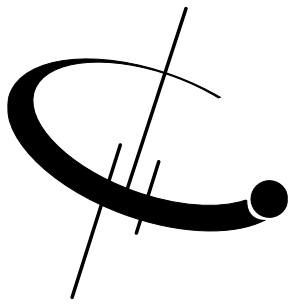
- Two Stage Amplifiers Design
- Input power level range: -3 dBm to +7 dBm
- Automatic Current Control (ACC) standard
- LCD digital display and LED status indicators
- Up to +37 dBm output power
- Optical gain up to 50 dB
- Software control through USB

USE IN

- General-purpose optical amplifier
- MOPA
- Optical Communication
- Test and measurement

FUNCTIONAL DIAGRAM





EYDFA-XX-R

SPECIFICATIONS

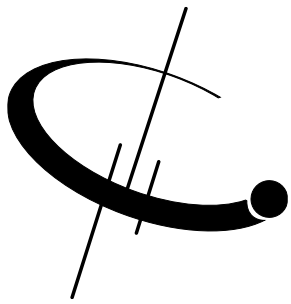
Operating Range	1537 nm to 1564 nm
Output Power Levels	30 ~ 37 dBm
Input Power Range	-3 dBm to +7 dBm, -20 dBm to 0 dB
Optical Gain	40 dB max.
Noise Figure (NF)	5.0 dB typ. @ -10 dBm input
Number of Outputs	1 output standard, up to 32 ports
Optical Return Loss	50 dB min.
Input/Output Optical Isolation	30 dB min.
Polarization Mode Dispersion	1.0 ps max.
Polarization Dependent Gain	0.10 dB max.
Output Power Stability	0.10 dB over 8 hours
Input/Output Fiber Type	Corning SMF-28

OPTICAL

Operating Temperature	-10°C to +60°C
Storage Temperature	-40°C to +70°C
Power Supply Requirements	80 – 240 V, 43 – 63 Hz AC
Power Consumption	80 W max.
Output Level Control	Pump Lasers Current Adjustment
Monitoring	Pump Laser Temperature
Computer Interface	LabVIEW via USB
Display	Input/Output Power Level, TEC Temperature
Alarms	Temperature and Input Power
Optical Connectors	FC/APC, other type optional

MECHANICAL





EYDFA-XX-R

ORDERING OPTIONS

EYDFA-XX-R-YY

XX Output power level 30 ~ 37 dBm

YY Number of Outputs up to 32

RELATED MODULE

- **EYDFA-XX-BM**



The Optilab EYDFA-XX-BM is a High Output Optical Amplifier in an easy to use module form factor with touch screen control

