

EYDFA-XX-BM



DEVICE

Erbium Ytterbium Doped Fiber Amplifier, Up to 37 dBm, Big Module

OVERVIEW

The Optilab EYDFA-XX-BM 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-BM is designed to produce high output power up to 37 dBm. By using a dual stage design, EYDFA-XX-BM provides optical gain of up to 50 dB (with optional Pre- Amp), while maintaining low noise figure (NF) below 5 dB. The EYDFA-XX-BM 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.

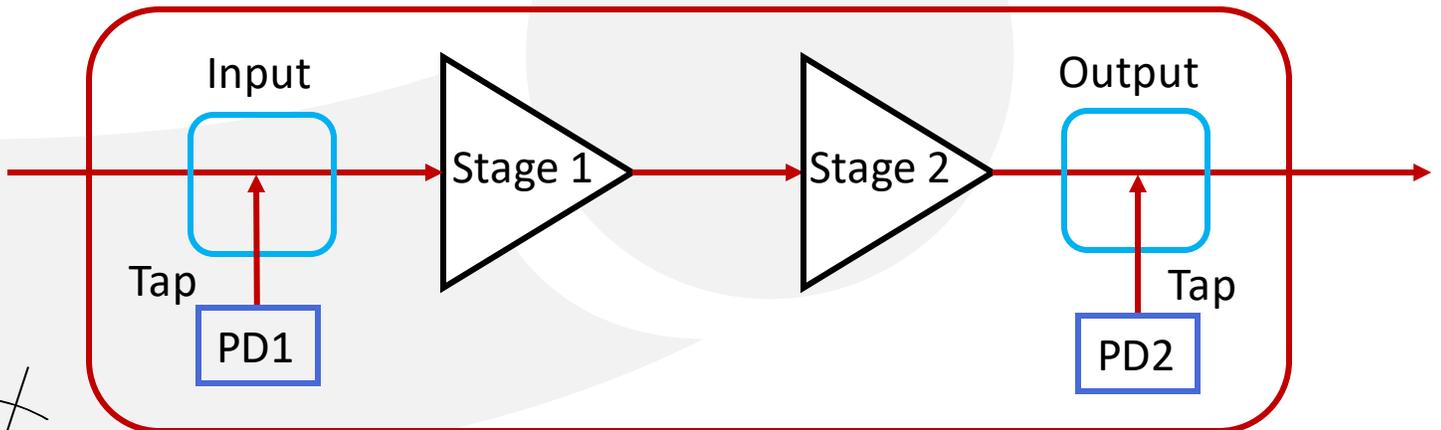
FEATURES

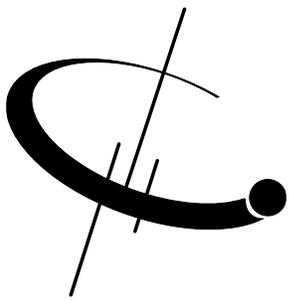
- Two Stage Amplifiers Design
- Input power level range: -3 dBm to +7 dBm
- Automatic Current Control (ACC) standard
- LCD digital display and LED status indicators
- Up to +37 dBm output power
- Optical gain up to 50 dB (w/ PA)
- Software control through USB

USE IN

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

FUNCTIONAL DIAGRAM





EYDFA-XX-BM

SPECIFICATIONS

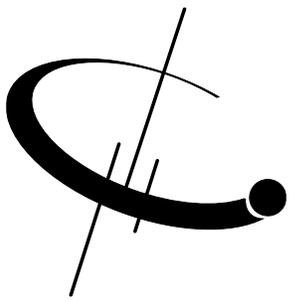
Operating Range	1537 nm to 1564 nm
Output Power Levels	30 ~ 37 dBm
Input Power Range	-3 dBm to +7 dBm, -20 dBm to 0 dBm
Optical Gain	40 dB max.
Noise Figure (NF)	5.0 dB typ. @ -10 dBm input
Number of Outputs	1 output standard, up to 32 ports
Optical Return Loss	50 dB min.
Input/Output Optical Isolation	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

MECHANICAL

Operating Temperature	0°C to +50 °C
Storage Temperature	-40 °C to +70 °C
Humidity	10% to 90%
Power Supply	100 to 240 VAC
Controls/Monitoring	Touch Screen or USB
Computer Communication Interface	RS-232 via USB
Dimensions	380(L) x 190(W) x 95(H) (mm)
Touch Screen	5 inch LCD
Power Consumption	< 100 W
Cooling Ventilation	Air Cool
Input Fiber	FC/APC input
Output Fiber	Bare Fiber (standard), Collimator (optional), High Power Connector (optional)





EYDFA-XX-BM

ORDERING OPTIONS

EYDFA-XX-BM-YY

XX Output power level 30 ~ 37 dBm

YY Number of Outputs up to 32

RELATED RACKMOUNT

- **EYDFA-XX-R**



The Optilab EYDFA-XX-R is a High Output Optical Amplifier in 3U rackmount form factor with touch screen control

