

EYDFA-XX-PM-R



DEVICE

Erbium Ytterbium Doped Fiber Amplifier, Up to 37 dBm

OVERVIEW

The Optilab EYDFA-XX-PM-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-PM-R is designed to produce high output power up to 37 dBm. By using a dual stage design, EYDFA-XX-PM-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-PM-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.

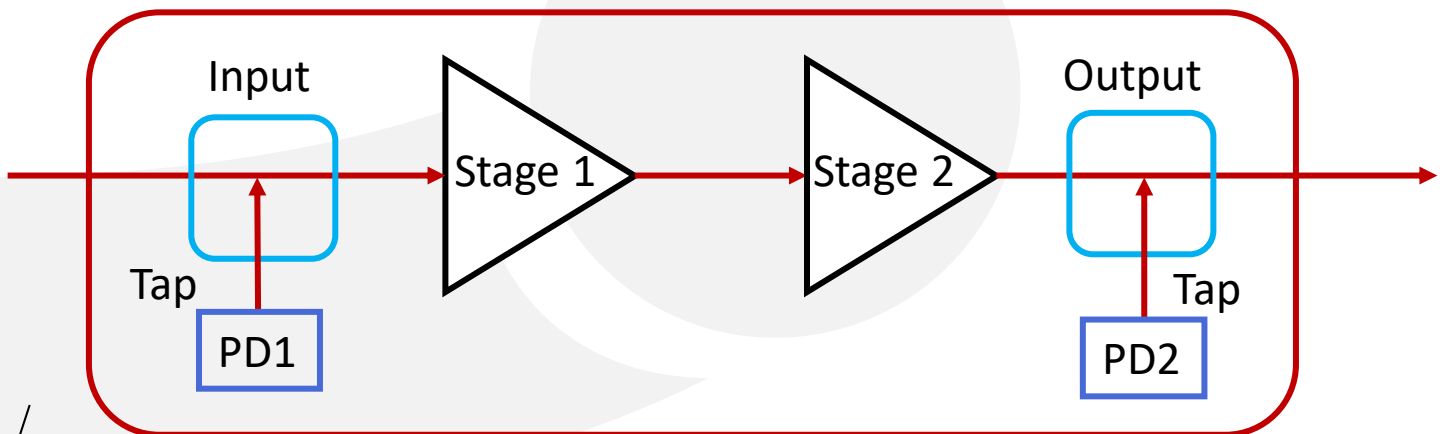
FEATURES

- Dual stage multi-mode 980 nm pump 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
- Reliable Er/Yb technology
- 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-PM-R

SPECIFICATIONS

Operating Wavelength	1545 nm to 1565 nm
CW Output Power	Up to 37 dBm
Optical Gain	> 26 dB @ 10 dBm Input
Optical Input Level	+10 dBm (typical)
Output Stability (short term)	± 0.2 dB
Control Mode	ACC (adjustable current)
Noise Figure	5 dB typical
Amplifying Medium	> 1 GHz

GENERAL

Operating Temperature	0°C to +50 °C
Storage Temperature	-40 °C to +70 °C
Humidity	5% to 40%
AC/DC Power Supply	110 to 240 V, 50 to 60 Hz
Controls/Monitoring	Touch Screen or USB
Computer Communication Interface	RS-232 via USB
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)

MECHANICAL

COLLIMATING LENS SPECIFICATIONS (EXAMPLE)

Nominal Beam Diameter	0.45 mm
Working Distance	10 mm
Typical Insertion Loss	0.25 dB
Max. Optical Power Handling	20 W
Input Fiber Type	PANDA PM

HIGH POWER CONNECTOR

Input Fiber Type	PM-1550
Max. Optical Power Handling	10W
Connector Type	FC/APC



EYDFA-XX-PM-R

ORDERING OPTIONS

EYDFA-XX-PM-R-YY

XX Output power level 30 ~ 37 dBm

YY Number of Outputs up to 32

RELATED MODULE

- **EYDFA-XX-PM-BM**



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