

EYDFA-33-R



Erbium Ytterbium Doped Fiber Amplifier, 33 dBm

The Optilab EYDFA-33-R Erbium Ytterbium Doped Fiber Amplifier (EYDFA) is a high-power, versatile amplifier designed for CATV networks, optical communication and other general-purpose optical applications. Based on multi-mode pumping Er/Yb double clad fiber technology, EYDFA-33-R is designed to produce high output power up to 33 dBm. By using a dual stage design, EYDFA-33-R provides optical gain of up to 50 dB (with optional Pre- Amp), while maintaining low noise figure (NF) below 5 dB. The EYDFA-33-R amplifier produces optical output level of +33 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, this compact 1U-housing can provided up to 32 output ports. Contact Optilab for more information.

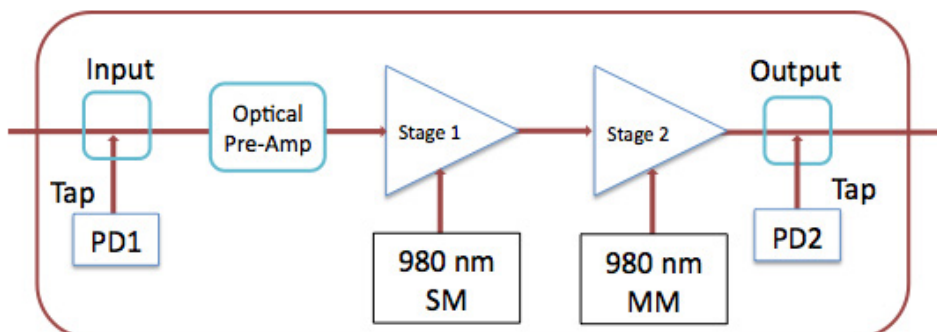
Features

- Up to +33 dBm output power
- Dual stage multi-mode 980 nm pump design
- Reliable Er/Yb technology
- Input power level range: -3 dBm to +7 dBm
- Optical gain up to 50 dB (with PA)
- Up to 32 output ports
- Automatic Current Control (ACC) standard
- LCD digital display and LED status indicators
- Software control through USB

Applications

- CATV Network amplification
- Optical Communication
- Test and measurement
- General-purpose optical amplifier

Functional Diagram



Erbium Ytterbium Doped Fiber Amplifier, 33 dBm

OPTIONS

EYDFA-33-xx-R-yy

xx Output power level
33 dBm

yy Pre-Amp (PA)

TECHNICAL INFO

For technical info and support:

sales@optilab.com

www.optilab.com

Optilab, LLC
Phoenix, AZ, USA

WEB ORDER

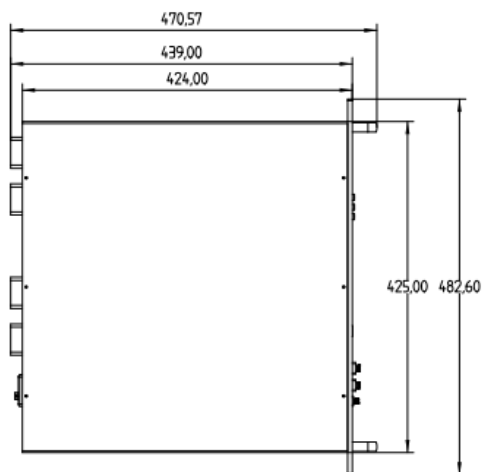
To order, please click below.



Optilab Advantage

- Innovation
- Performance
- Quality
- Customization

Optical Specifications	
Operating Range	1537 nm to 1564 nm
Output Power Levels	+33 dBm
Input Power Range	-3 dBm to +7 dBm -20 dBm to +0 dB with optional PA
Optical Gain	40 dB Max. 50 dB with optional PA
Noise Figure (NF)	<5.0 dB Typical @ -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
Mechanical Specifications	
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	60 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, SC/APC, Other Type Optional
Housing Dimensions	1RU 482.60(L) x 470.57(W) x 44.00(H)



32 Output Ports



Units: mm

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Detailed Layout

Software

