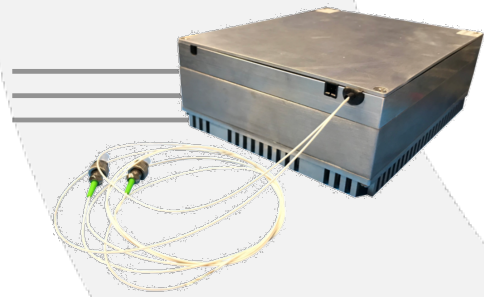


EYDFA-33-PM-M



DEVICE

Er/Yb Doped Fiber Amplifier, +33 dBm, Module

OVERVIEW

The Optilab EYDFA-33-PM-M is designed to amplify optical signals up to 10 W average power for high power applications at 1550 nm wavelength range. The EYDFA-33-PM-M incorporates two stages of amplification based on multi-mode pumping technology using Er/Yb double clad fiber technology, with PM input and output. The optical gain of the EYDFA-33-PM-M can exceed 50 dB by adding an optional pre-amplifier EDFA, which allows a low input signal level of -20 dBm. It utilizes large core fiber technology to remove raman scattering, which causes nonlinear amplification. The EYDFA-33-PM-M is equipped with RS-232 for user interface and remote control. The EYDFA-33-PM-M can be ordered with PM collimator and other options. Contact Optilab for more information.

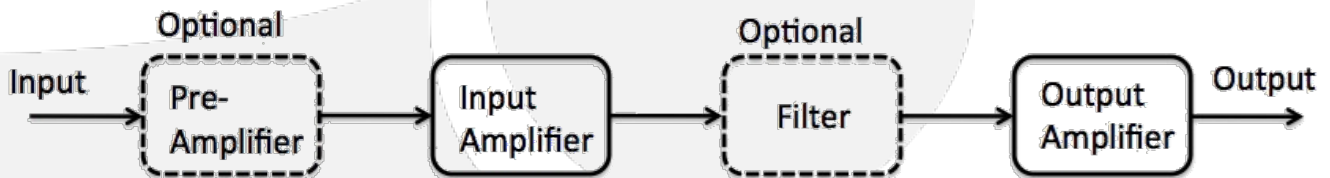
FEATURES

- Amplifies from 1540 nm to 1570 nm
- High Gain of 50 dB with optional pre-amp
- Up to 10 W CW output power
- Large core fiber technology
- PM input and output
- Optional PM collimator
- Mid-stage ASE filter

USE IN

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

FUNCTIONAL DIAGRAM





EYDFA-33-PM-M

SPECIFICATIONS

Operating Wavelength	1540 nm to 1570 nm
CW Output Power	+33 dBm
Optical Gain	> 35 dB standard, dual stage; > 50 dB w/ optional pre-amp.
Optical Input Level	-6 to 3 dBm standard, dual stage; -20 to -6 dBm w/ optional pre-amp.
Output Stability (short term)	± 0.2 dB
Control Mode	ACC or APC optional
Noise Figure	< 6 dB
Polarization Design	Single Polarization, Fast Axis Blocked, Slow Axis Pass
Amplifying Medium	PM: large core (> 15µm) Er/Yb doped, double clad fiber
Fiber Connector	FC/APC input, mid-stage

OPTICAL

Operating Temperature	0°C to +50°C
Storage Temperature	-40°C to +70°C
Humidity	10% to 90%
Controls/Monitoring	RS-232
Communication Interface	RS-232 interface cabling to PC
Dimensions	230 x 250 x 70 mm
Weight	9.2 lbs
External Power Supply (included)	110 V - 240 V AC, 50/60 Hz, 1A
Power Consumption	< 80 W
Cooling Ventilation	Air cool

MECHANICAL

Nominal Beam Diameter	0.45 mm
Working Distance	10 mm
Typical Insertion Loss	0.25 dB
Typical Extinction Ratio	25 dB
Max. Average Optical Power	20 W
Fiber Type	PM Panda fiber or specify

COLLIMATING LENS (EXAMPLE)

