EYDFA-37-R

DEVICE

Erbium Ytterbium Doped Fiber Amplifier, 37 dBm

OVERVIEW

The Optilab EYDFA-37-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-37-R is designed to produce high output power up to 37 dBm. By using a dual stage design, EYDFA-37-R provides optical gain of up to 50 dB (with optional Pre- Amp), while maintaining low noise figure (NF) below 5 dB. The EYDFA-37-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, this compact 1U-housing can provided up to 32 output ports. Contact Optilab for more information.

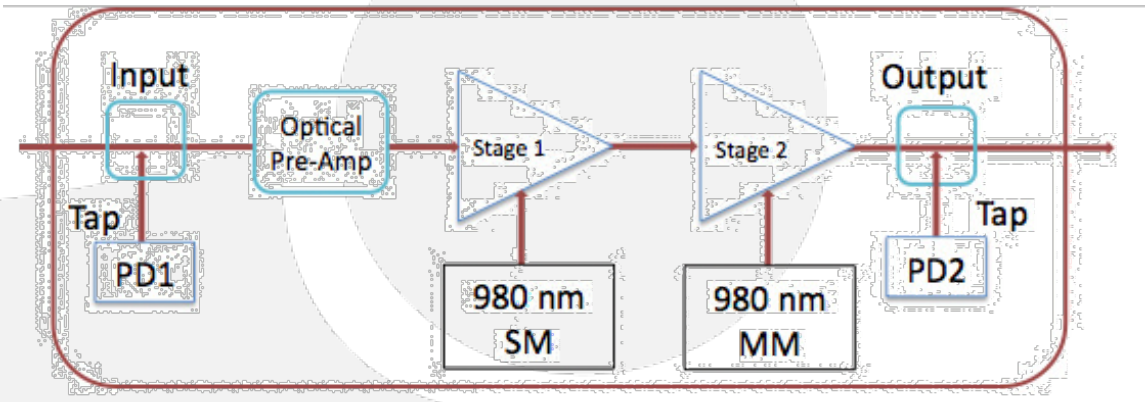
FEATURES

- 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 (w/ PA)
- Up to 32 output ports
- Software control through USB

USE IN

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

FUNCTIONAL DIAGRAM



EYDFA-37-R

SPECIFICATIONS

OPTICAL

Operating Range	1537 nm to 1564 nm
Output Power Levels	+37 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 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

MECHANICAL

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 482.6 (L) x 470.57 (W) x 44 (H)

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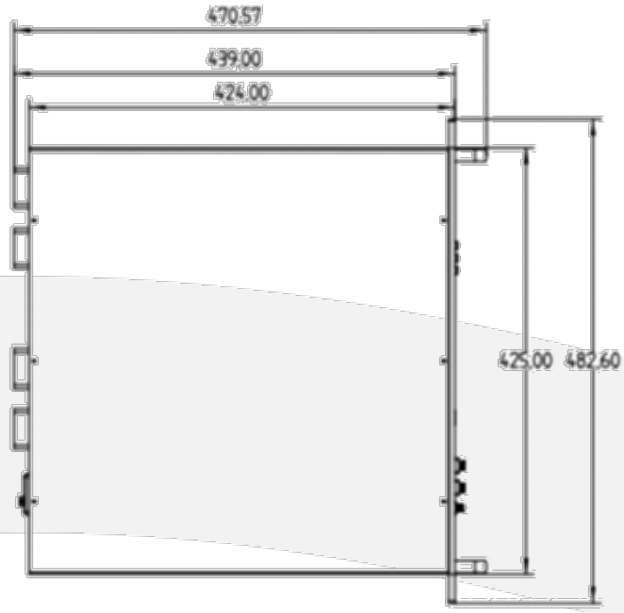
MECHANICAL DRAWING



Optional 32 Output Ports

SOFTWARE