

EYDFA-43-4



EYDFA, 4 Output Ports, up to 43 dBm

The Optilab EYDFA-43-4 series are high-power, reliable optical amplifiers with up to +43 dBm total power output and up to 4 output ports. Utilizing an integrated pre-amplifier which increase optical gain to 50dB, EYDFA-43-4 is ideal for Pulsed laser, LIDAR, HFC and Free space communication. The EYDFA-43-4 series uses multimode laser pumping, all-fiber combiner and Er/Yb double-clad, fiber technologies to achieve high output power in conjunction with excellent reliability. Constructed with long term uninterrupted service in mind, the Optilab EYDFA-43-4 series features a space saving 3U rackmount housing that is easy to install and

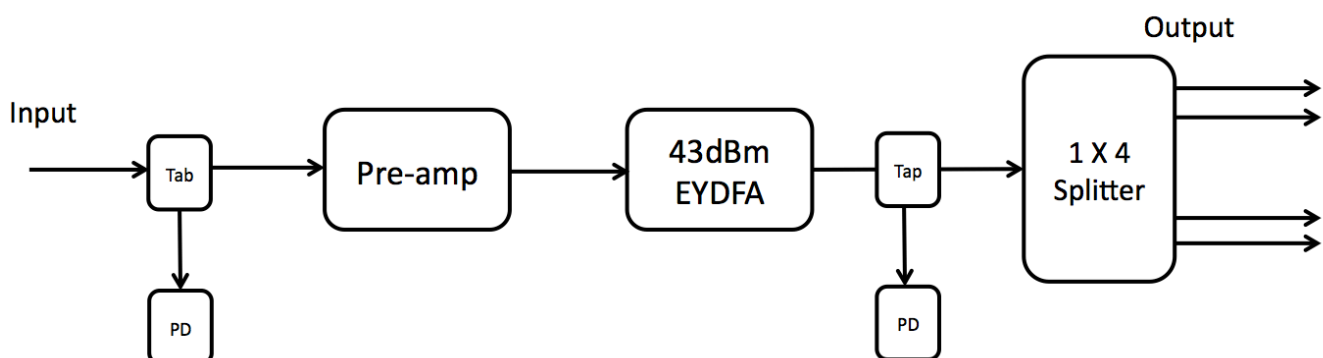
Features

- Optical gain up to 50 dB
- Up to 43 dBm total power
- Noise figure of 5 dB
- Touch screen LCD control
- Remote interface, Lab view
- 3U housing rackmount

Applications

- LIDAR
- Pulsed Laser System
- HFC networks
- Free space communication
- Research & Development

Functional Diagram



Multiple Ports EYDFA, up to 43 dBm

OPTIONS

EYDFA-xx-y

xx 37, 40, 43 dBm

y 2, 4 output

TECHNICAL INFO

For technical info and support:

sales@optilab.com

www.optilab.com

General Specifications	
Operating Wavelength Range	1540 nm to 1570 nm
EDFA Output Power Level	+37, +40 +43dBm available
EDFA Input Power	-20 to +5 dBm
Optical gain	Up to 50 dB
Number of Output Ports	2, 4 or other available
Output Power Per Port	See chart below
Port To Port Variation	±0.3 dB max.
Noise Figure (NF)	5.0 dB typ.
Input/Output optical Isolation	30 dB min.
Output Power Stability	±0.2 dB over 8 hours max.
Input / Output Fiber Type	Corning SMF-28

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Mechanical Specifications	
Operational Temperature Range	-10 °C to +60 °C standard
Storage Temperature Range	-40 °C to +70 °C
Power Supply	110 – 220 V AC, 43 – 63 Hz AC, 2A
Cooling requirements	Air Cooling
Optical Connectors	FC/APC or coordinating lense
Power Consumption	100 W max.
Housing Dimensions	3RU 19"(W) x 17.5"(D) x 3.5"(H)
Weight	Laser Temperature, output power
Control / Monitoring	Current
Remote Interface	LabVIEW, USB

EYDFA Configuration			
Part Number	Total Power	Number of Ports	Output Power Per Port
EYDFA-37-2	+37 dBm	2	+34 dBm
EYDFA-40-2	+40 dBm	2	+37 dBm
EYDFA-40-4	+40 dBm	2	+34 dBm
EYDFA-43-4	+43 dBm	4	+37 dBm