EYDFA-40-PM-B

DEVICE

40 dBm Polarization Maintaining EYDFA Amplifier, Benchtop

OVERVIEW

The Optilab EYDFA-40-PM-B is designed to amplify optical signals up to 40 dBm average power for high power applications at 1550 nm wavelength range with Polarization Maintaining (PM) fiber. The EYDFA-40-PM-B incorporates two stages of amplification based on multi-mode pumping technology using Er/Yb double clad fiber. The EYDFA-40-PM-B utilizes large core fiber technology to remove Raman scattering, which causes nonlinear amplification and is equipped with LabVIEW user interface and remote control. The EYDFA-40-PM-B can be ordered with an PMF collimator, EDFA pre-amplifier, Mid-Stage Access, and other options. Contact Optilab for more information.

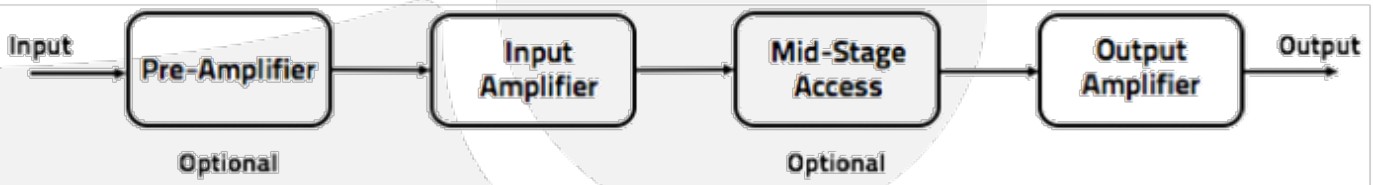
FEATURES

- Polarization Maintaining Fiber
- Up to 5 W CW output power
- Amplifies from 1540 nm to 1570 nm
- Large Core Fiber Technology
- Mid-Stage Access (optional)

USE IN

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

FUNCTIONAL DIAGRAM



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SPECIFICATIONS

OPTICAL

Operating Wavelength	1540 nm to 1570 nm
CW Output Power	Up to 40 dBm
Optical Gain	> 30 dB @ +5 dBm input
Optical Input Level	+3 to +10 dBm
Output Stability (short term)	± 0.2 dB
Polarization Extinction Ratio (PER)	25 dB typ.
Control Mode	ACC (Adjustable Current)
Noise Figure	< 5 dB typ.
Amplifying Medium	Large core Er/Yb doped, double clad fiber

MECHANICAL

Operating Temperature	0°C to +50°C
Storage Temperature	-40°C to +70°C
Humidity	10% to 90%
Power Supply, Internal	95V – 125V AC, 2.8 A
Controls/Monitoring	LCD Display
Communication Interface	USB/LabView
Dimensions	304 (L) x 163 (W) x 68 (H) (mm)
Power Consumption	< 150 W
Cooling Ventilation	Air Cool
Fiber Type	PM Panda
Input Fiber	FC/APC Input
Output Fiber	Bare Fiber (standard), Collimator (optional), High Power Connector (optional)

Product specifications and description are subject to change without notice. © 2019 Optilab, EYDFA-40-PM-B. Jan 2019. Rev. 1.0