



DEVICE Erbium-Doped Fiber Amplifier, L-Band, Benchtop

The Optilab EDFA-L-XX-B Erbium-Doped Fiber Amplifier (EDFA) is a versatile amplifier designed for optical communication and other general-purpose optical applications. EDFA-L-XX-B provides optical gain of up to 30 dB, while maintaining low noise figure (NF) of 5 dB. The EDFA-L-XX-B amplifier produces optical output levels from +17 dBm to +21 dBm with an input power level range from -10 dBm to +7 dBm. This product features adjustable output level power via ACC through the front panel and software control through USB. Contact Optilab for more information.

FEATURES

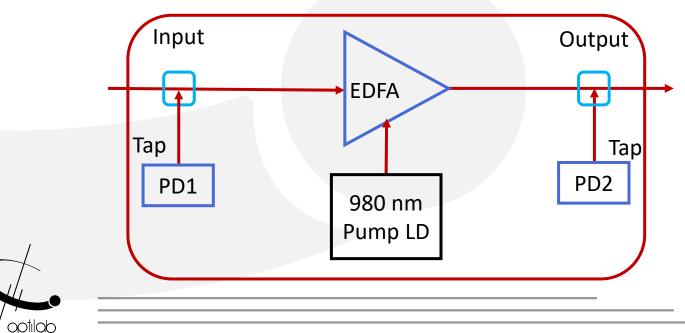
OVERVIEW

- Up to +21 dBm output powerOptical gain up to 30 dB
- Software control through USB
- Single Pump Amplification
- Input power level range: -10 dBm to +7 dBm
- Automatic Current Control (ACC) standard
- LCD digital display and LED status indicators

USE IN

- Optical Communication
- General-purpose optical amplifier
- Test and measurement

FUNCTIONAL DIAGRAM



Product specifications and description are subject to change without notice. © 2020 Optilab, EDFA-L-XX-B. Jul 2020 Rev. 1.1



SPECIFICATIONS

OPTICAL	Operating Range	1568 nm – 1605 nm
	Output Power Levels	+17 dBm to +21 dBm
	Input Power Range	-10 dBm to +7 dBm
	Optical Gain	Up to 30 dB 🛽 -10 dBm input
	Noise Figure (NF)	< 5.0 dB typ. 🛽 -10 dBm input
	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,, Other Option Available
	Housing Dimensions	250mm (W) x 300mm (L) x 100mm (H)

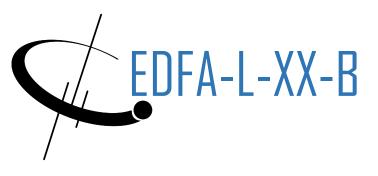
ORDERING OPTIONS

EDFA-L-XX-B

XX Output Power Level: +17 dBm to +21 dBm



Product specifications and description are subject to change without notice. © 2020 Optilab, EDFA-L-XX-B. Jul 2020 Rev. 1.1



RELATED RACKMOUNT

• EDFA-L-XX-R



The Optilab EDFA-L-XX-R is a high-gain EDFA in a 1U rackmount housing. PM version is also available upon request.

