

EDFA-PA-C-R



Pre-Amp EDFA Amplifier, C-band, Rackmount

OVERVIEW

The Optilab EDFA-PA-C-R is a high-gain pre-amplifier EDFA in a standard 1U rackmount. It is an easy-to-use and features adjustable output power level via front LCD buttons and software control through USB. Using a high gain design, this pre-amp module provides over 25 dB gain with a 4.5 dB noise figure, good for input power level as low as -40 dBm. Software control via a standard RS-232 interface is available for status monitoring and pump current adjustments. It also features pump laser protection and alarms to ensure the reliability and safety of the device. The EDFA-PA-C-R requires AC power cord for operation. Contact Optilab for more information.

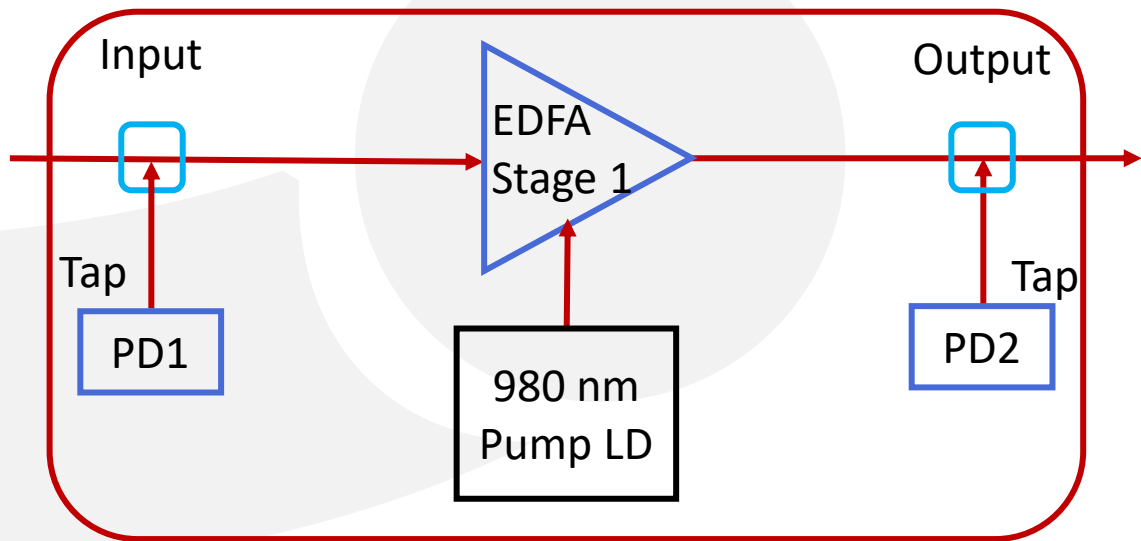
FEATURES

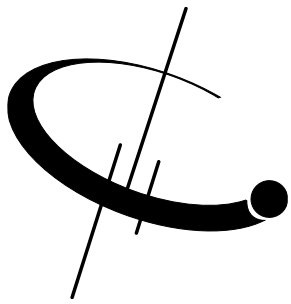
- High gain of more than 25 dB
- Low noise figure
- Designed for low input level
- Wide wavelength operation range
- RS-232 standard for remote control

USE IN

- OEM integration for
 - Optical Networks
 - Research and Development
 - RF over Fiber
- Pulse Amplification

FUNCTIONAL DIAGRAM





EDFA-PA-C-R

SPECIFICATIONS

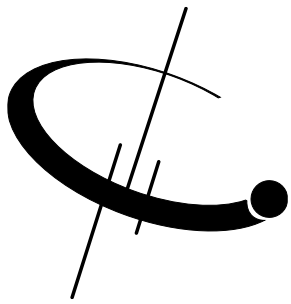
GENERAL

Operating Range	1528nm to 1563nm
Output Power Levels	+15 dBm @ 0 dBm typ.
Input Power Range	-40 dBm to +5 dBm
Optical Gain	25 dB min. @ -40 dBm input
Noise Figure	4.5 dB typ. 5.0 dB max.
Optical Return Loss	50 dB min
Input Optical Isolation	30 dB min.
Output Optical Isolation	30 dB min.
Polar. Mode Dispersion	0.1 ps max.
Polar. Dependent Gain	0.1 dB max.
Output Power Stability	0.15 dB over 8 hours
Input/Output Fiber Type	Corning SMF-28

MECHANICAL

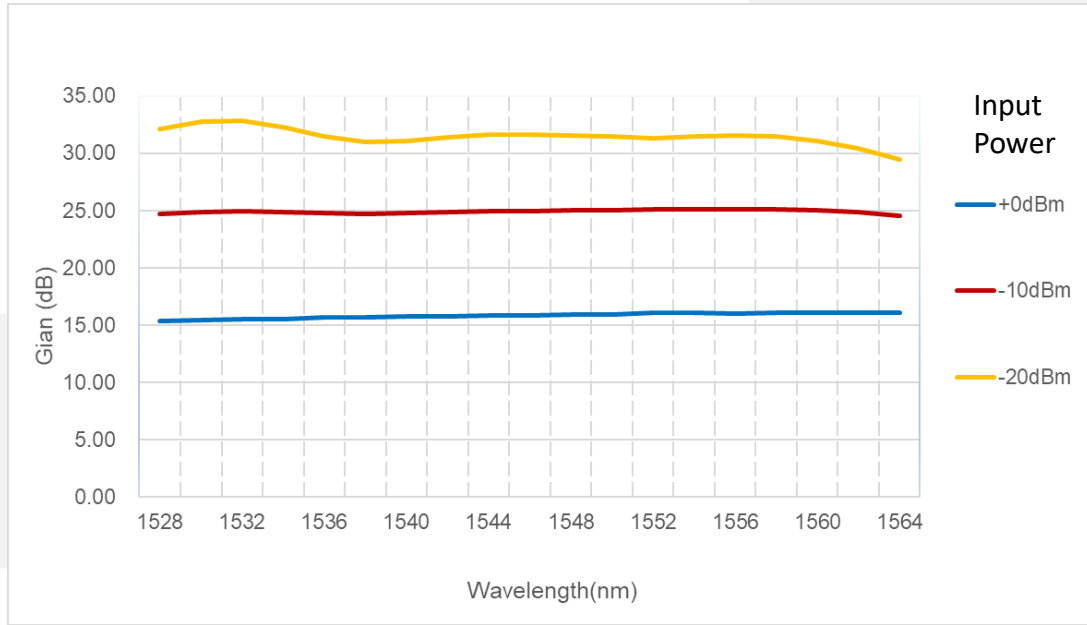
Operating Temperature	-10°C to +60°C
Storage Temperature	-40°C to +70°C
Power Supply Requirements	80 - 240 V, 43 - 63 Hz AC
Power Consumption	60 W max.
Output Level Control	Pump Lasers Current Adjustment
Monitoring	Pump Laser Temperature
Computer Interface	RS232 via USB
Display	Input/Output Power Level, TEC Temperature
Alarms	Temperature and Input Power
Optical Connectors	FC/APC, Other Option Available
Housing Dimensions	1RU 482.60 (L) x 470.57 (W) x 44.00 (H) (mm)





EDFA-PA-C-R

GAIN SPECTRUM



RELATED MODULE

- **EDFA-PA-M**



The Optilab EDFA-PA-M Pre-Amp EDFA is a module for amplifying low input level signals for OEM integration.

