



EDFA-PA-L-R



Pre-Amp EDFA Rackmount, L-band

OVERVIEW

The Optilab EDFA-PA-L-R is a high-gain pre-amplifier EDFA in a Benchtop. It is an easy-to-use and features adjustable output power level via front panel 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 an 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-L-R requires AC power cord for operation. Contact Optilab for more information.

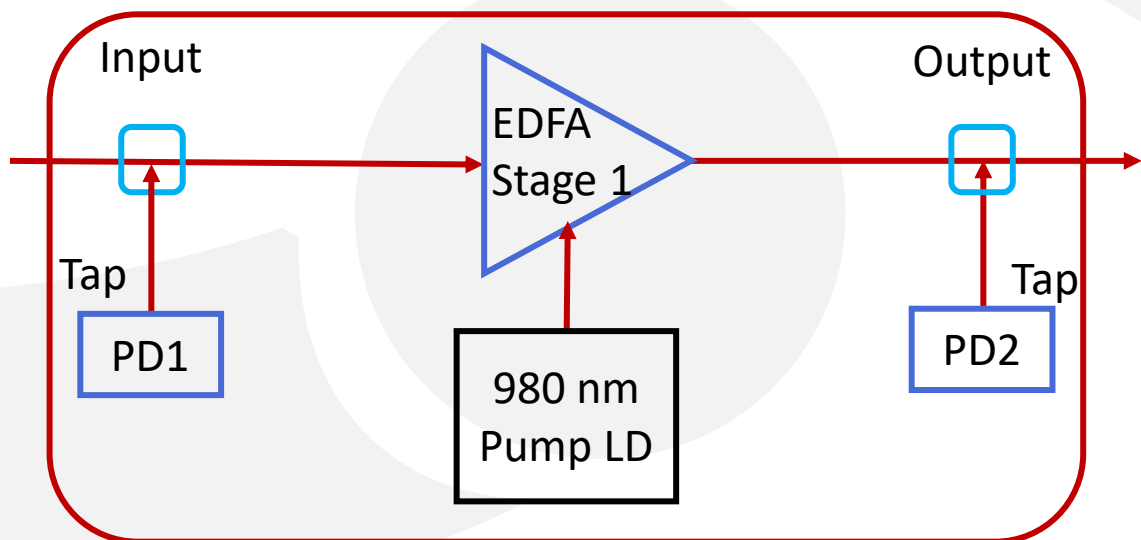
FEATURES

- High gain of more than 25 dB
- 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-L-R

SPECIFICATIONS

GENERAL

| | |
|--------------------------|----------------------------|
| Operating Range | 1568 nm - 1605 nm |
| Output Power Levels | +14 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, SC/APC, Other Types Optional |
| Housing Dimensions | 1RU 482.60 (L) x 470.57 (W) x 44.00 (H) (mm) |

