# EDFA-PA-C-R


DEVICE

## 25 dB Gain Pre-Amp EDFA Rackmount, C-Band

OVERVIEW

The Optilab EDFA-PA-C-R Pre-Amp Erbium-Doped Fiber Amplifiers is a high-gain rackmount unit for amplifying low input level signals that is an easy-to-use and cost-efficient solution for photonic subsystems, OEM integration, and fiber optic system integration. This benchtop provides over 25 dB gain with a 4.5 dB noise figure and is designed to amplify signal with a low input level as low as -40 dBm. Software control is standard via an RS-232 port for status monitoring and pump current adjustments, and pump laser protection and alarms are equipped to ensure the reliability and safety of the device. Contact Optilab for more information.

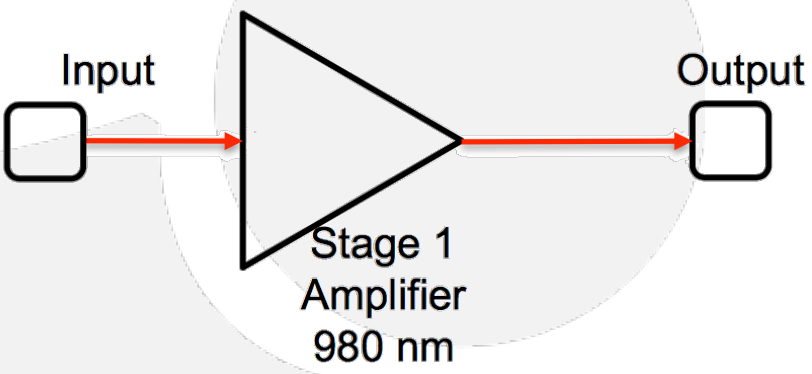
FEATURES

- High gain of more than 25 dB
- Low noise figure
- Designed for low input level
- RS-232 standard for remote control
- Wide wavelength operation range
- C-band or L-band wavelength options
- 10+ years of operation life

USE IN

- OEM integration for
  - DWDM networks
  - HFC/CATV
  - RFoG/PON
- Photonic subsystems
- Fiber optic link amplification

FUNCTION DIAGRAM



# EDFA-PA-C-R

## SPECIFICATIONS

### GENERAL

| | |
|---|---|
| Operating Range | 1528nm to 1563nm |
| Output Power Levels | +14 dBm @ 0 dBm typ. |
| 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. |
| Input Power Range | -40 dBm to +5 dBm |
| Output Power Stability | 0.15 dB over 8 hours |
| Input/Output Fiber Type | Corning SMF-28 |

### MECHANICAL

| | |
|---|---|
| Operating Temperature | -10 °C to +70 °C |
| Power Supply | 80 – 240 V, 43-63 Hz AC |
| Power Consumption | 40 W max. |
| Fiber Type | SMF-28 |
| Fiber Jacket | 900µm |
| Connector Type | FC/APC |
| Connector (power & control) | DB-25 Male |
| Display | LEDs for On/Off, Power |
| Remote Control | USB |
| Dimensions | 250mm x 300mm x 100mm |