

# EDFA-C-R



## Erbium-Doped Fiber Amplifier, C-Band

The Optilab EDFA-C-R Erbium-Doped Fiber Amplifier (EDFA) is a high-gain, versatile amplifier designed for CATV networks, optical communication and other general-purpose optical applications. By using a dual stage amplifier design, EDFA-C-R provides optical gain of up to 30 dB, while maintaining low noise figure (NF) below 5 dB. The EDFA-C-R amplifier produces optical output levels from +18 dBm to +26 dBm with an input power level range from -12 dBm to +7 dBm. Featuring adjustable output level power via ACC through the front panel and software control through USB, this compact 1U-housing can provided up to 32 output ports. Contact Optilab for more information.

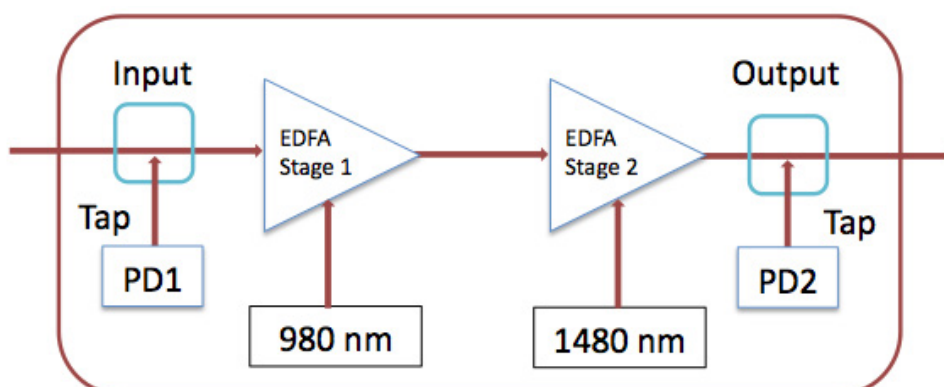
### Features

- Up to +26 dBm output power
- Dual stage pump design
- Reliable 980 nm and 1480 nm lasers
- Input power level range: -12 dBm to +7 dBm
- Optical gain up to 30 dB
- Up to 32 output ports
- Automatic Current Control (ACC) standard
- LCD digital display and LED status indicators
- Software control through USB

### Applications

- CATV Network amplification
- Optical Communication
- Test and measurement
- General-purpose optical amplifier

### Functional Diagram



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## OPTIONS

### EDFA-C-xx-R-yy

- xx Output power level +18 – +26 dBm
- yy 1, 2, 4, 8, 16, 32

## TECHNICAL INFO

For technical info and support:

[sales@optilab.com](mailto:sales@optilab.com)

[www.optilab.com](http://www.optilab.com)

Optilab, LLC  
Phoenix, AZ, USA

## WEB ORDER

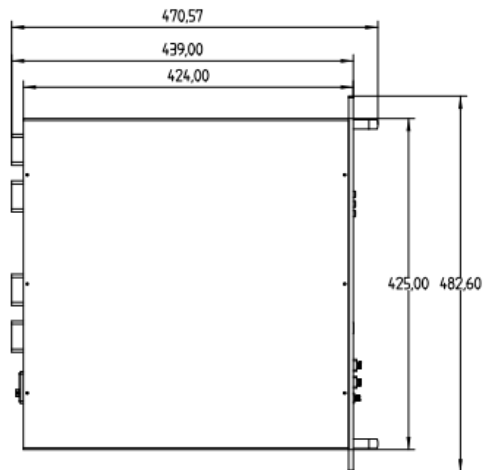
To order, please click below.



## Optilab Advantage

- Innovation
- Performance
- Quality
- Customization

Optical Specifications	
Operating Range	1528 nm to 1564 nm
Output Power Levels	+18 dBm to +26 dBm
Input Power Range	-12 dBm to +7 dBm
Optical Gain	Up to 30 dB
Noise Figure (NF)	<5.0 dB Typical @ -10 dBm Input
Number of Outputs	1 output standard Up to 32 ports
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 Specifications	
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, SC/APC, Other Type Optional
Housing Dimensions	1RU 482.60(L) x 470.57(W) x 44.00(H)



32 Output Ports



Units: mm