EDFA-C-R

DEVICE

Erbium-Doped Fiber Amplifier, C-Band

OVERVIEW

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.

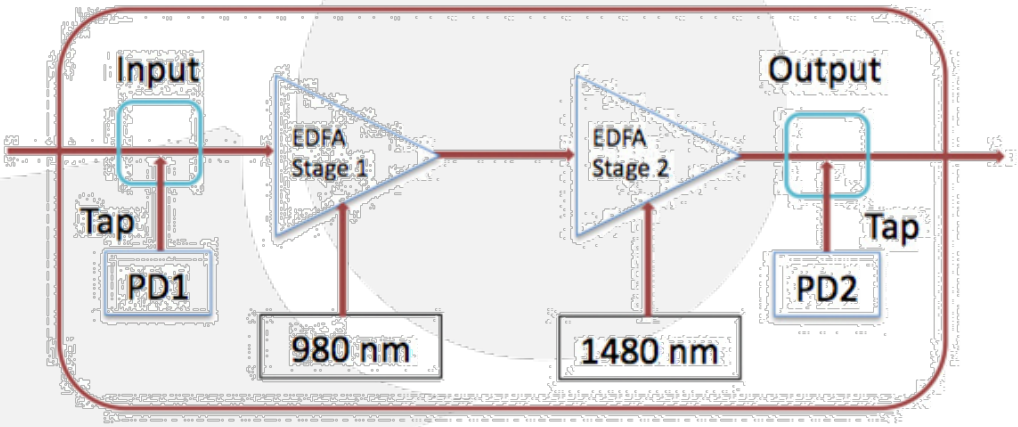
FEATURES

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

USE IN

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

FUNCTIONAL DIAGRAM



EDFA-C-R

SPECIFICATIONS

OPTICAL

Operating Range	1528 nm – 1564 nm
Output Power Levels	+18 dBm to +26 dBm
Input Power Range	-12 dBm to +7 dBm
Optical Gain	Up to 30 dB @ -5 dBm input
Noise Figure (NF)	< 5.0 dB typ. @ -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

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 Types Optional
Housing Dimensions	1RU 482.60 (L) x 470.57 (W) x 44.00 (H) (mm)

ORDERING OPTIONS

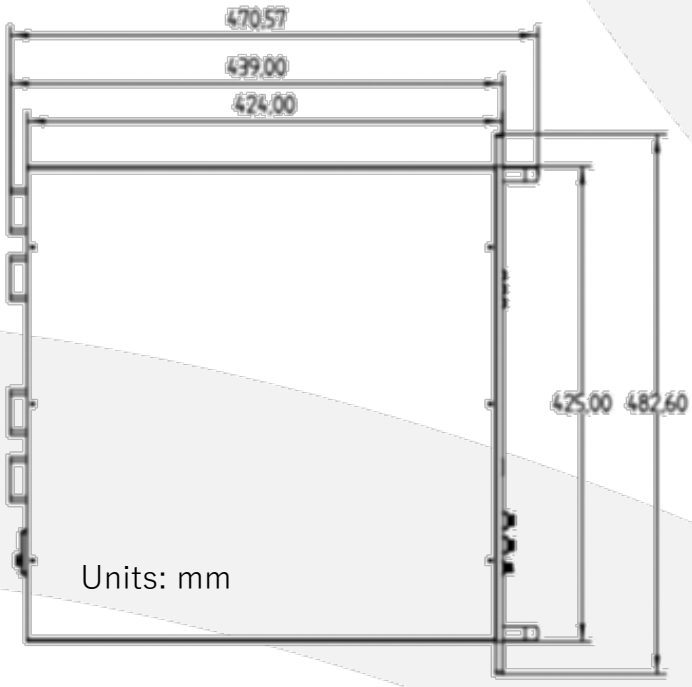
EDFA-C-xx-R-yy

xx Output Power Level: +18 dBm to +26 dBm

yy 1, 2, 4, 8, 16, 32

EDFA-C-R

MECHANICAL DRAWING



OPTIONAL 32 OUTPUT PORT, REAR PANEL