

## rEDFA



## Standard Erbium-Doped Fiber Amplifier

The Optilab rEDFA series of Erbium-Doped Fiber Amplifiers (EDFA) are reliable and cost-effective fiber amplifiers for use in HFC, RFoG, PON and deep fiber applications. By combining 980 nm/1480 nm pump laser modules and high efficiency Erbium-doped fiber, rEDFA amplifiers deliver output up to +26 dBm, while maintaining a low Noise Figure (NF). In conjunction with other Optilab transmitter products, the rEDFA can be used for transmitting forward 1550 nm analog channels and/or 100% QAM256 signals. Constructed with long term uninterrupted service in mind, the rEDFA provides the best cost/performance ratio in the industry. Contact Optilab for more information.

### Features

- High-gain design allows low input signal level
- Amplifier gain of up to 50 dB
- Gain Flattening Filter (GFF) optional
- Amplifies full DWDM channel range
- 980 nm and 1480 nm single mode pump
- TEC cool pump lasers
- 15+ year operation life
- Automatic Current Control (ACC) standard
- **3 year warranty standard**

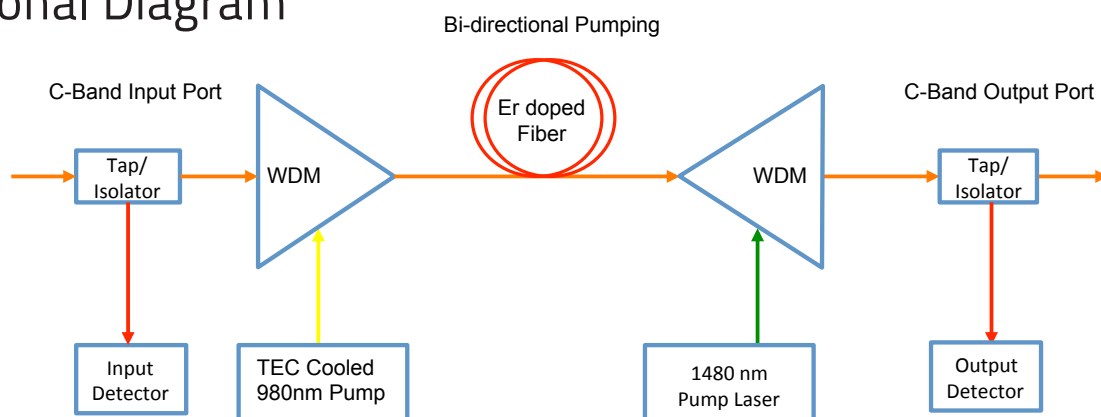
### Applications

- HFC
- RFoG
- PON
- Deep Fiber Applications
- For RUS/USDA projects



This Optilab product meets Buy American and is RUS accepted

### Functional Diagram



# Standard Erbium-Doped Fiber Amplifier | rEDFA

## OPTIONS

### rEDFA-xx-y

- xx Output Power
- y # of Output Ports

## TECHNICAL INFO

For technical info and support:

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

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

## PHONE

Contact Optilab at:

**1-888-553-3888 (toll-free)**  
**1-602-343-1496 (direct, int'l)**

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- End to end solutions
- Best cost/performance ratio
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- Based in Phoenix, Az

Optical Specifications	
Operating Wavelength Range	1530 nm to 1565 nm
Input Power Range	-5 dBm to +7 dBm
Output Power Level	+17 to +26 dBm
Output Power Stability	0.15 dB over 8 hours
Number of Output	1 port standard, 2, 4, 8, 16 ports available
Optical Return Loss	50 dB min.
Input/Output optical Isolation	30 dB min.
Polarization Mode Dispersion	1.0 ps max.
Polarization Dependent Gain	0.15 dB max.
Noise Figure (NF)	5.0 dB max. @ +3 dBm Input
Input Output Fiber Type	Corning SMF28
Mechanical Specifications	
Operation Temperature Range	0°C to +50°C
Storage Temperature Range	-40°C to +70°C
Power Supply	80 – 240 V, 43 – 63 Hz AC 40 - 58 VDC (optional)
Power Consumption	60 W max.
Housing Dimensions	1RU 19"(W) x 14"(D) x 1.75"(H)
Control / Monitoring	Pump Laser Temperature and Current
Display	Output Power Level, TEC temperature
Alarm	Over Temperature , Over Current
Optical Connectors	SC/APC or Customer Specified