

gEDFA



High-Gain Erbium-Doped Fiber Amplifier

The Optilab gEDFA series of Erbium-Doped Fiber Amplifiers (EDFA) are reliable and cost-effective high-gain optical amplifiers for use in HFC, RFOG, PON and deep fiber applications. The gEDFA provides gain of up to 50 dB while accepting a wide range of input power levels. By combining 980 nm/1480 nm pump laser modules and high efficiency Erbium-doped fiber, gEDFA amplifiers deliver output up to +24 dBm, while maintaining a low Noise Figure (NF). In conjunction with other Optilab transmitter products, the gEDFA can be used for transmitting forward 1550 nm analog channels and/or 100% QAM256 signals. Constructed with long term uninterrupted service in mind, the gEDFA provides the best cost/performance ratio in the industry. Contact Optilab for more information.

Features

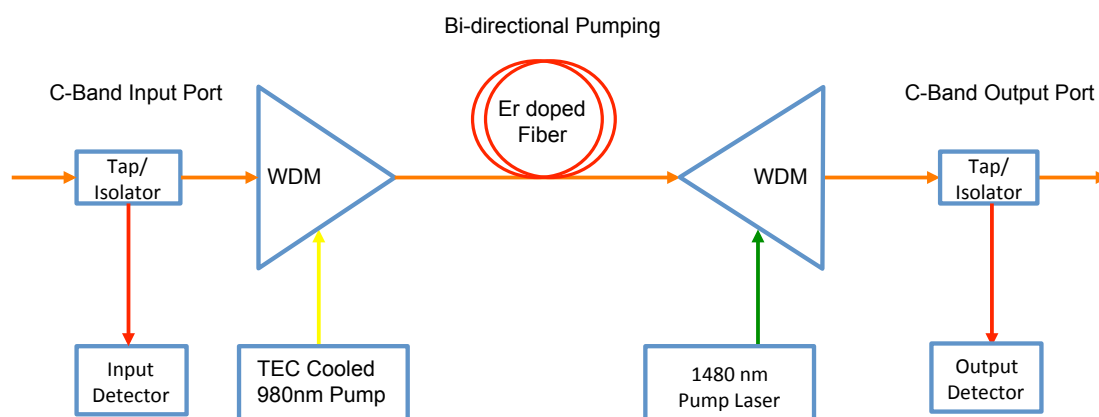
- High-gain design allows low input signal level
- Amplifier gain of up to 50 dB
- Gain Flattening Filter (GFF) optional
- Amplifies full DWDM channel range
- 980 nm and 1480 nm single mode pump
- TEC cool pump lasers
- 15+ year operation life
- Automatic Current Control (ACC) standard
- **3 year warranty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

Applications

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



Functional Diagram



High-Gain Erbium-Doped Fiber Amplifier | gEDFA

OPTIONS

gEDFA-xx-y

- xx Output Power
- y # of Output Ports

TECHNICAL INFO

For technical info and support:

sales@optilab.com

www.optilab.com

WEB ORDER

To order, please visit OEQuest.com.



Optilab Advantage

- Innovation
- Performance
- Quality
- Customization
- Warranty

| Optical Specifications | |
|--------------------------------|--|
| Operating Wavelength Range | 1530 nm to 1565 nm |
| Input Power Range | -12 dBm to +5 dBm |
| Output Power Level | +17 to +24 dBm |
| Optical Gain | Up to 40 dB |
| Output Power Stability | 0.15 dB over 8 hours |
| Number of Output | 1 port standard, 2, 4, & 8 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 |