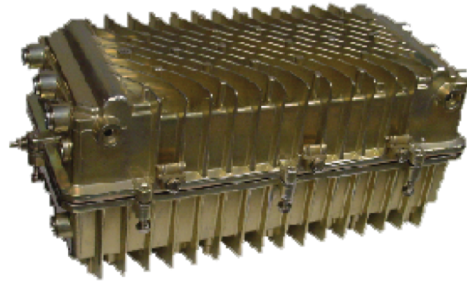


nEDFA



DEVICE

Outdoor Erbium Doped Fiber Amplifier

OVERVIEW

The Optilab nEDFA series of Erbium Doped Fiber Amplifiers (EDFA) are sturdy outdoor fiber amplifiers, designed for system integrators in HFC, FTTH, PON and deep-fiber systems. By combining 980 nm/1480 nm pump laser modules and high efficiency Erbium doped fiber, the nEDFA amplifiers deliver output up to +24 dBm, while maintaining low Noise Figure (NF). Designed to operate over a wide temperature range, the nEDFAs are easy to use, reliable and cost-effective solutions.

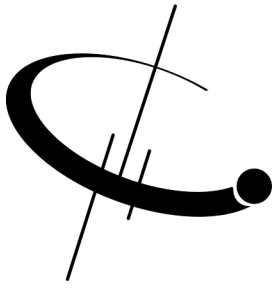
Depending on pump lasers configuration, the nEDFA amplifier produces optical output levels from +15 dBm to +24 dBm.

FEATURES

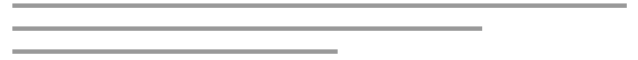
- Weather proof cast aluminum housing for outdoors installation
- Highly reliable 980 nm and 1480 nm pump lasers
- Designed to operate over a wide temperature range: -40° C to +55° C
- Forward and backward pumping to minimize noise figure (NF)
- 60 V AC, 110 VAC or -48 VDC power supply
- Input power level range: -5 dBm to +7 dBm
- Automatic Current Control (ACC)
- LCD front panel digital display and LED status indicators

USE IN

- HFC
- FTTH
- RFoG
- PON
- Deep Fiber Applications



nEDFA



TECHNICAL SPECIFICATIONS

Operating Wavelength Range	1528 nm to 1563 nm
Output Power Level (1550 nm and +3 dBm Input)	15.0 dBm typ., 17.0 dBm typ., 20.0 dBm typ., 22.0 dBm typ., 23.0 dBm typ., 24.0 dBm typ.
Number of Output	1 output standard, multiple output ports can be customized
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 Power Range	-5 dBm to +7 dBm
Output Power Stability	0.25 dB over 8 hours
Input Output	Corning SMF28

MECHANICAL SPECIFICATIONS

Operating Temperature Range	-40°C to +55°C
Storage Temperature Range	-50°C to +70°C
Power Supply	60 VAC Standard, 110 VAC and -48 VDC power supply available
Power Consumption	60 W max.
Housing Dimensions	17'' (L) x 10'' (W) x 6.5'' (H)
Control/Monitoring	Pump Laser Temperature and Current
Optical Connectors	SC/APC or Customer Specified
Alarm	Over Temperature, Over Current

