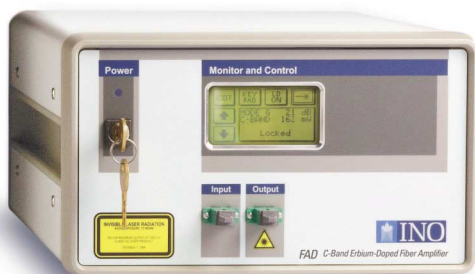


Fiber Amplifier

FAD Series

C-Band



Benchtop Erbium-Doped Fiber Amplifier

The FAD is a benchtop optical fiber amplifier for the C-Band. In comparison to our FAF, the FAD is a dual-stage amplifier featuring a lower noise figure as well as higher gain and output power. Gain flattening and gain locking options make this EDFA an ideal choice for DWDM applications.

INO manufactures key amplifier components in-house to bring an added dimension of specialized expertise to EDFA fabrication. In addition to producing its own erbium-doped fiber, INO also designs and builds the Bragg gratings, including the phase masks, used in gain flattening filters, ensuring maximum quality and reliability. This gives us the unique ability to build better amplifiers and custom-design them to suit your needs.

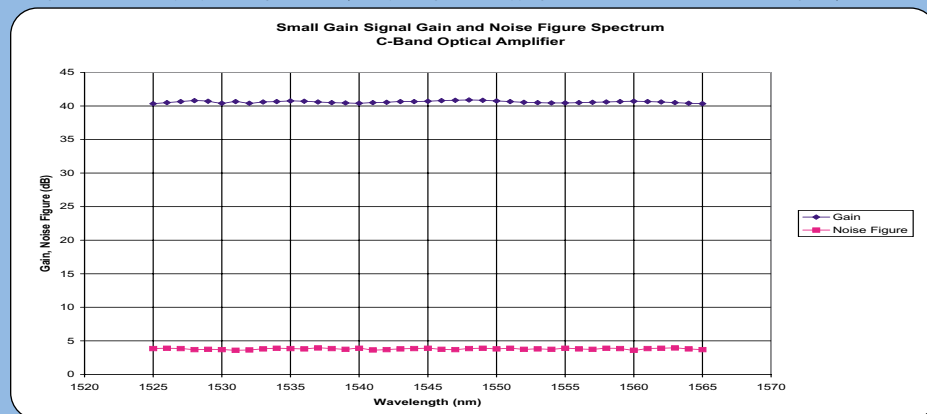
Key Features

Output power	18 dBm	20 dBm
Gain	40 dB @ 1550 nm	

- Gain flatness: +/- 0.25 dB from 1530 to 1560 nm*
- Noise figure: < 4 dB
- Gain locking⁽¹⁾: +/- 0.5 dB from 20 to 32 dB*

*Available on certain models only. See chart on opposite.

(1) In DWDM systems, adding and/or dropping one or more channels can cause high fluctuations in power to the surviving channels that may be detrimental to the system's operation. The gain locking option allows you to lock the gain of the surviving channels at a desired value, say 20 dB, over an input power range of 12 dB (corresponding to the dropping of 15 channels out of 16 in a DWDM system).



Specifications

Output power	18 dBm	20 dBm
Gain	40 dB @ 1550 nm	

- Gain flatness: +/- 0.25 dB from 1530 to 1560 nm*
- Noise figure: < 4 dB
- Gain locking: +/- 0.5 dB from 20 to 32 dB
- WDM gain: 24 dB with a -10 dBm tone
- Pump wavelength: 980 nm and/or 1480 nm
- Wavelength range: 1525 to 1565 nm
- Supply voltage: 105-240 V
- Operating temperature range: 0 - 40°C
- Size: 163 mm (H) x 254 mm (W) x 314 mm (D)

* Available on certain models only. See chart below.

Main Options

- GPIB/RS-232 port
- I/O signal monitoring
- Rack mount adapters
- ASE filtering
- Automatic pump control
- Low noise figure
- Low PMD

Model	Gain Locking	Gain Flattening	Channel Add/Drop**
FAD-180-B			
FAD-181-B	X		
FAD-182-B		X	
FAD-183-B	X	X	
FAD-DESC-B**	X	X	X

** FAD-DESC-B is a patented EDFA that combines dispersion compensation, equalization and stabilization of gain with channel add/drop functionality.

Customizable