

High Power Erbium-doped Fiber Amplifier for L-band

ERBIUM-DOPED FIBER AMPLIFIERS (EDFA)



The L-band high-power erbium-doped fiber amplifier (EDFA) is based on the principle of stimulated amplification of optical signals in erbium-doped fibers. It utilizes efficient single-mode fiber optical amplification design and high-power laser heat dissipation technology to achieve high-power output of laser light at wavelengths ranging from 1570 to 1605 nm. It boasts the advantages of high power and low noise, making it suitable for applications in fiber-optic communication systems, fiber sensing, lidar, and other fields.

- High output power
- Fiber Communication
- High Gain
- Fiber Sensing
- Low Noise
- Lidar

Specifications

Parameter	Specification
Operating Wavelength (nm)	1570~1605
Input signal power (dBm)	-6~+10
Saturated output power (dBm)	27/30/33/37/40
Adjustable range of output power	10%~100%
Noise Figure (dB)	<6.0
Polarization dependent gain (dB)	≤ 0.5
Polarization mode dispersion (ps)	0.5
Input/ Output Isolation (dB)	>35
Optical power monitoring	Input optical power monitoring, Output Power
Optical Fiber	SMF-28
Fiber Connectors	FC/APC
Control Mode	Automatic current control (ACC)/ Automatic power control (APC)

* Saturated output power: @-3dBm Input

* Noise Figure: @-3dBm Input

* Fiber Connectors: * For power testing only

Source: WaveQuanta product database. For ordering, customization (wavelength, power, package) and quotation, contact sales@wavequanta.com.