

Erbium-doped Fiber In-Line Amplifier for C-band

ERBIUM-DOPED FIBER AMPLIFIERS (EDFA)



Erbium-doped Fiber Line Amplifier (abbreviated as LA Amplifier) is a dedicated optical power amplifier product used for line relay in fiber laser or fiber communication systems. It combines the advantages of both PA (Pre-Amplifier) and BA (Booster Amplifier) amplifiers, providing high gain for small signals and high output power. It features high gain, high launch power, and low noise, making it suitable for use between fiber segments to increase relay length or in the corresponding point-to-multipoint section of optical access networks to compensate for branching loss.

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

Specifications

Parameter	Specification
Operating Wavelength (nm)	1530~1565
Input signal power (dBm)	-25 ~ -3
Saturated output power (dBm)	13/17/ 20/ 23/25/26
Small signal gain coefficient (dB)	35
Noise Figure (dB)	5.5
Polarization dependent gain (dB)	≤ 0.3
Polarization mode dispersion (ps)	0.5
Input/Output Isolation (dB)	>35
Optical power monitoring	Output Power
Optical fiber and connectors	SMF-28, FC/APC
Control Mode	Automatic current control (ACC)/ Automatic power control (APC)

* Operating Wavelength: C-band

* Saturated output power: @-10dBm Input

* Small signal gain coefficient: @-25dBm Input

* Noise Figure: @-10dBm Input

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