

Erbium-doped Fiber Pre-Amplifier for C-band

ERBIUM-DOPED FIBER AMPLIFIERS (EDFA)



C-band (* Note 1) erbium doped fiber Pre-amplifier (PA amplifier for short) is an amplifier specially used for weak optical signals in the range of -45dBm ~ -25dBm. The typical gain of small signal is as high as 35 ~ 45 dB and has low noise figure. It is usually used before a photodetector to improve its detection ability for weak optical signals.

- Wide operating wavelength
- Fiber Communication
- High Gain
- Fiber Sensing
- Low Noise
- Fiber Laser

Specifications

Parameter	EDFA-PA-35 (Pre-Amp)	EDFA-PA-45 (Pre-Amp)
Operating Wavelength (nm)	1530~1565nm	1530~1565nm
Input signal power (dBm)	-35~-25	-45~-25
Small signal gain (dB)	35 @-35dBm Input	45 @-45dBm Input
Noise Figure (dB)	≤ 4.5	≤ 4.5
Polarization dependent gain (dB)	≤ 0.3	≤ 0.3
Polarization mode dispersion (ps)	≤ 0.5	≤ 0.5
Input/ Output Isolation (dB)	>35	>35
Optical power monitoring	Output Power	Output Power
Optical fiber and connectors	SMF-28 , FC/APC	SMF-28 , FC/APC
Control Mode	Automatic Current Control (ACC)	Automatic Current Control (ACC)

* Operating Wavelength: C-band

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