

Pulsed Erbium-doped Fiber Amplifier

ERBIUM-DOPED FIBER AMPLIFIERS (EDFA)



The pulsed erbium-doped fiber amplifier (EDFA) is a series of fiber amplifier products specifically designed for low-repetition-rate nanosecond laser pulses. It boasts the advantages of high gain and low noise, capable of outputting high-peak-power laser pulses while minimizing the nonlinear effects in fibers. It supports control by host computer software and can be offered in desktop or modular packaging.

- Short pulse amplification
- Fiber Sensing
- High peak power
- Lidar
- Customizable
- Fiber Laser

Specifications

| Parameter | Specification |
|---------------------------------------|---------------------------------|
| Operating Wavelength (nm) | 1530~1565 |
| Input signal spectral linewidth (MHz) | ≥1 |
| Pulse Width (ns) | 1 ~50 |
| Pulse Frequency (kHz) | 1~1000 |
| Input optical pulse peak (mW) | 1~10 |
| Output optical pulse peak (W) | 1~1000 |
| Noise Figure (dB) | 5.5 |
| Extinction Ratio PER (PER) (dB) | ≥23 |
| Polarization dependent gain (dB) | - |
| Polarization mode dispersion (ps) | - |
| Input/ Output Isolation (dB) | >35 |
| Optical Fiber | PM1550 |
| Fiber Connectors | FC/APC |
| Control Mode | Automatic current control (ACC) |

* Output optical pulse peak: Based on pulse width and repetition frequency

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