

# High-Power Polarization Maintaining EDFA for C-band

## ERBIUM-DOPED FIBER AMPLIFIERS (EDFA)



High-Power Polarization Maintaining EDFA for C-band The C-band high-power polarization-maintaining erbium-doped fiber amplifier (PM-EDFA) is based on the principle of stimulated light amplification of optical signals in erbium-doped fibers. It utilizes a unique multi-stage optical amplification design and a reliable high-power laser heat dissipation technology to achieve high-power polarization-maintaining output for laser light within the wavelength range of 1535~1565nm. This amplifier boasts advantages such as high power, high extinction ratio, and low noise, making it suitable for applications in optical fiber communication, lidar, and more.

- High output power (up to 10 watts)
- Fiber Communication
- High Gain
- Fiber Sensing
- High polarization extinction ratio
- Lidar

### Specifications

Parameter	Specification
Operating Wavelength (nm)	1535 ~1565
Input signal power (dBm)	-6~+10
Saturated Output power (dBm)	27/ 30/33/35/37/40
Adjustable range of output power	10%~100%
Noise Figure (dB)	<6.0
Extinction Ratio PER (PER) (dB)	23(Type), 20(Min)
Input/ Output Isolation (dB)	>35
Optical power monitoring	Input optical power monitoring, Output power
Optical Fiber	PM1550
Fiber Connectors	FC/APC
Control Mode	Automatic current control (ACC)/ Automatic power control (APC)

\* Operating Wavelength: Other wavelengths can be customized

\* Saturated Output power: @0dBm Input

\* Noise Figure: @0dBm Input

\* Fiber Connectors: For power testing only

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