

# Polarization Maintaining Erbium-doped Fiber Amplifier for C-band

## ERBIUM-DOPED FIBER AMPLIFIERS (EDFA)



Polarization-Maintaining Erbium-Doped Fiber Amplifier (EDFA-PM) is a series of fiber amplifier products specifically designed for polarization-maintaining fiber systems. It boasts the advantages of full polarization maintenance, high gain, and high power. It supports software control from a host computer, and its compact size facilitates integration. Depending on customer needs, it can be provided in desktop or modular packaging, and is open to customized parameters.

- High Gain
- Fiber Communication
- High output power
- Fiber Sensing
- High polarization extinction ratio
- Fiber Laser

### Specifications

Parameter	Small signal amplifier (SSA) PA	Power Amplifier (PA) BA	Line Amplifier (LA)
Operating Wavelength (nm)	1530~1565	1530~1565	1530~1565
Input signal power (dBm)	-45 ~-25	-6~+3	-25~-3
Saturated output power (dBm)	14		
Small signal gain coefficient (dB)	≥ 30/35/45	≥ 25	≥25
Noise Figure (dB)	≤ 5	≤ 5	≤5
Extinction Ratio PER (PER) (dB)	23(Type), 20(Min)	23(Type), 20(Min)	23(Type), 20(Min)
Input/ Output Isolation (dB)	>35	>35	>35
Optical power monitoring	Output Power	Output Power	Output Power
Optical fiber and connectors	PM1550 , FC/APC	PM1550 , FC/APC	PM1550 , FC/APC
Control Mode	Automatic current control (ACC)/ Automatic power control (APC)	Automatic current control (ACC)/ Automatic power control (APC)	Automatic current control (ACC)/ Automatic power control (APC)

\* Extinction Ratio PER (PER): Operating in slow axis, Blocking in fast axis

\* Optical fiber and connectors: Alignment in slow axis

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