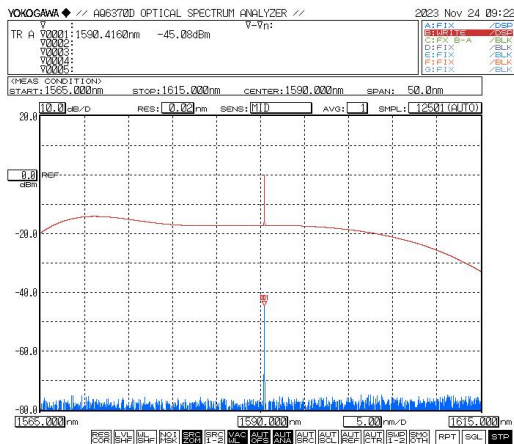


# L-band Erbium-doped Fiber Small Signal Amplifier

## ERBIUM-DOPED FIBER AMPLIFIERS (EDFA)



The L-band erbium-doped fiber small signal amplifier (PA amplifier for short) is an amplifier dedicated to L-band weak optical signals in the range of -45dBm to -25dBm. The typical gain of small signals is as high as 45dB and has a low noise figure. It is usually used before photodetectors to improve their ability to detect weak optical signals.

### Specifications

Parameter	Specification
Wavelength range (nm)	1570 ~ 1603 nm
Input power (dBm)	-45~-25
Gain coefficient (dB)	45 @ -45dBm input
Noise figure (dB)	≤ 4.5
Polarization extinction ratio (dB)	≥23
Input/Output isolation (dB)	>35
Optical power monitoring	Output optical power monitoring
Pigtail type and connectors	PM1550
Working mode	automatic current control (ACC)

- \* wavelength range: L -band
- \* pigtail type and connectors: FC/APC
- \* working mode: Note 2

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