

Thulium-doped Fiber Amplifier

YB / RAMAN / THULIUM AMPLIFIERS



Thulium-doped Fiber Amplifier(YDFA) generates gain by pumping Yb-doped fiber with a semiconductor laser, amplifying laser signals in the 1030~1080nm wavelength range. It outputs through Hi1060 single-mode fiber or PM980 polarization-maintaining fiber, with continuously adjustable output power. It boasts high gain and low noise. The desktop YDFA facilitates experimental operations, allowing users to adjust the pump current and output power through front panel buttons. A more compact modular YDFA is also available for easy system integration by users. Both desktop and modular YDFAs support PC software control and serial command control.

- Wide operating wavelength
- Fiber Communication
- High output power
- Fiber Sensing
- Low Noise
- Fiber Laser

Specifications

Parameter	Specification
Operating Wavelength (nm)	1920 ~ 2020
Input signal power (dBm)	-10 ~ 10
Saturated output power (dBm)	20/23/25/26/27/30/33/37/40
Noise Figure (dB)	≤ 5.0
Polarization dependent gain (dB)	≤0.3
Polarization mode dispersion (ps)	≤0.5
Input/output Isolation (dB)	>35
Optical power monitoring	Output Power
Optical Fiber	Single-mode: SMF-28 ; SMF-1950;
Fiber Connectors	FC/APC
Control Mode	Automatic current control (ACC)/ Automatic power control (APC)

* Operating Wavelength: *Note 1

* Saturated output power: @ 0 dBm Input

* Noise Figure: @ 0 dBm Input

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