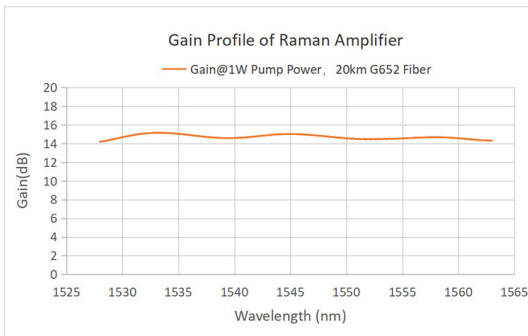


# 1st Order Distributed Fiber Raman Amplifier

## YB / RAMAN / THULIUM AMPLIFIERS



Fiber Raman amplifier utilizes the Raman scattering effect in quartz optical fibers to provide gain for optical signals. By employing a 14xxnm wavelength laser as the Raman pump, it can provide gain for the signal light in the C-band, effectively compensating for the attenuation of optical signals during long-haul transmission in optical fibers. It is suitable for long-distance optical transmission systems and distributed optical fiber sensing systems.

- Wide operating wavelength
- Long-distance fiber communication
- High Gain
- Fiber optic distributed sensing
- Low noise figure
- Fiber Laser

### Specifications

Parameter	Specification
Pump Wavelength (nm)	1425~1465
Signal Wavelength (nm)	1528~1565
Raman Gain (dB)	10/20
Gain Flatness (dB)	<2
Pump Power (mW)	300/500/1000/1400
Degree of polarization (DOP) of pump light	5% (Typical), 10%(Max)
Noise Figure (dB)	0
Optical Fiber	SMF-28
Fiber connectors	FC/APC
Control Mode	APPC (Automatic pump power control)

\* Signal Wavelength: Customizable

\* Raman Gain: \*Note 2

\* Gain Flatness: \*Note 2

\* Pump Power: Customizable

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