

1st Order Distributed Fiber Raman Amplifier

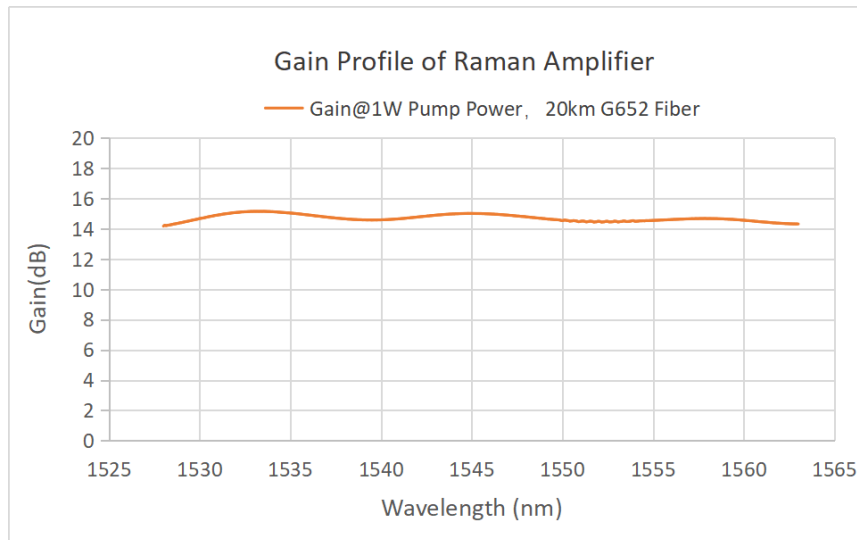
Fiber Raman amplifier uses the Raman Scattering effect in quartz fiber to provide gain for optical signal. 14xxnm laser is used as Raman pump to provide gain for signal light in C or L band, which can effectively compensate the attenuation of optical signal in long-distance optical fiber transmission. It is suitable for long-distance optical transmission system and distributed optical fiber sensing system.

Characteristics

- Wide Wavelength Range
- High Gain
- Low noise

Applications

- Optical Communications
- Fiber Sensing
- Fiber Laser



Optical Parameters	Unit	Typical Value	Remarks
Signal Wavelength	nm	1528~1565	Customizable
Optical Gain	dB	10/20	*Note 4
Gain Flatness	dB	<2	
Pump Wavelength	nm	1425~1465	
Total Pump Power	mW	300/500/1000/1400	Customizable
Degree of Polarization	-	5% (Type), 10%(Max)	
Effective Noise Figure	dB	0	
Optical Fiber	-	SMF-28单模	
Fiber connectors	-	FC/APC	
Control mode	-	ACC	



General Parameters	Desktop	Module
Control function	Key lock switch, Push button	RS232 serial Communication
Remote Control Port	Optional	DB9 Female
Power Supply	AC100~240V, <45W	DC 12V3A
Dimensions	260(W)×280(D)×120(H)mm	125(W)×150(D)×30(H)mm
Operation Temperature	-5~+35°C	
Operation Humidity	0~70%	

Ordering Information/ Model Number			
FRA	Wavelength(nm)	Pump Power(mW)	Packaging
	1550	300/500/1000/1400	M- Module
	1650		B - Desktop

*Note 4 The amplifier is only a Raman amplifier pump, which needs to cooperate with the long-distance quartz fiber in the user system to produce sufficient signal gain.