

2nd Order Distributed Fiber Raman Amplifier

Based on the 1st-order fiber Raman amplifier, the 2nd-order fiber Raman amplifier adds a 13xxnm pump laser to provide Raman gain for the 14xxnm laser of the 1-order Raman, which can effectively reduce the system noise and is suitable for optical signal amplification in longer-distance repeater free optical transmission systems. The 2nd-order fiber Raman amplifier needs to be used together with the 1st-order fiber Raman amplifier.

Characteristics

- Wide Wavelength Range
- High Gain
- Low noise

Applications

- Optical Communications
- Fiber Sensing
- Fiber Laser



Optical Parameters	Unit	Typical Value	Remarks
Signal Wavelength		1425~1465	Customizable
Optical Gain	dB	10/20	
Gain Flatness	dB	<2	
Pump Wavelength	nm	1340~1360	
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	
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
	1450	300/500/1000/1400	M - Module B - Desktop