

Distributed Fiber Raman Amplifier

-2nd Order Fiber Raman Amplifier

On the basis of the first-order fiber Raman amplifier, the second-order fiber Raman amplifier adds a pump laser in the 13xxnm band to provide Raman gain for the first-order Raman 14xxnm laser, which can effectively increase the performance of the Raman amplifier and is suitable for use in Optical signal amplification for longer distance unrepeated optical transmission systems. The second-order fiber Raman amplifier needs to be used together with the first-order fiber Raman amplifier

Key Features

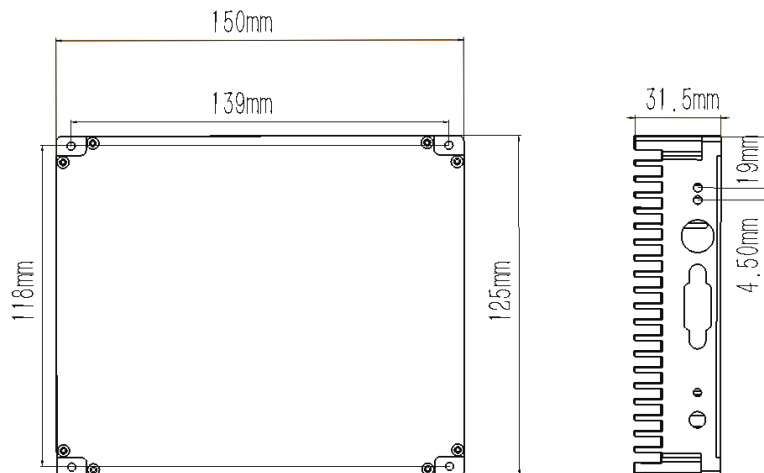
- Low noise
- High Gain
- Wide wavelength range

Applications

- Optical fiber distributed sensing
- Fiber Lasers
- Long-distance optical



Module dimensions:



*Note: When the module is installed, the cooling fins are facing upwards, and ensure that sufficient cooling air is blown along the cooling fins.

For more Info

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Performance Specifications

Optical Parameter	Unit	Typical Values	Remark
Signal Wavelength	nm	1425~1465	customizable
Raman gain	dB	10/20	*Note 2
Gain Flatness	dB	<2	
Pump wavelength	nm	1425~1457	
Pump Power	mW	300/500/1000/1100	customizable
Pump light polarization DOP	-	5% (Type), 10%(Max)	
Polarization dependent gain PDG	dB	<0.2	
Polarization Mode Dispersion PMD	ps	<0.5	
Input/output Isolation	dB	>35	
Fiber Type	-	SMF-28	1.0m length
Optical Connector	-	FC/APC or Fiber collimator	
Control Mode	-	Automatic pump power control (APPC)	

*Note 2 :This amplifier is only Raman amplifier pumping and needs to cooperate with the long-distance quartz fiber in the user's system to generate sufficient signal gain.

Electrical and environmental parameters	Desktop	Module
Control Mode	Button	RS232
Communication Interface	* Optional	DB 25 Female
Power Supply	100~240V AC, <45W	5V DC, <30W
Dimensions	260(W)×320(D)×120(H)mm	125(W)×150(D)×30(H)mm
Operation Temperature Range	-5~+55°C	
Operation Humidity Range	0~70%	

Order information P/N: ①-②-③-④

When you inquire, please provide the correct P/N number according to our ordering information, and attach the appropriate description would be better.

①	②	③	④
FRA	Signal wavelength (nm)	Pump power (mW)	Package Type
	1450	300/500/1000/1100	M: Module B: Desktop

Ordering Information for Custom Parts

If you need to customize other specifications, please provide detailed description for your requirement.