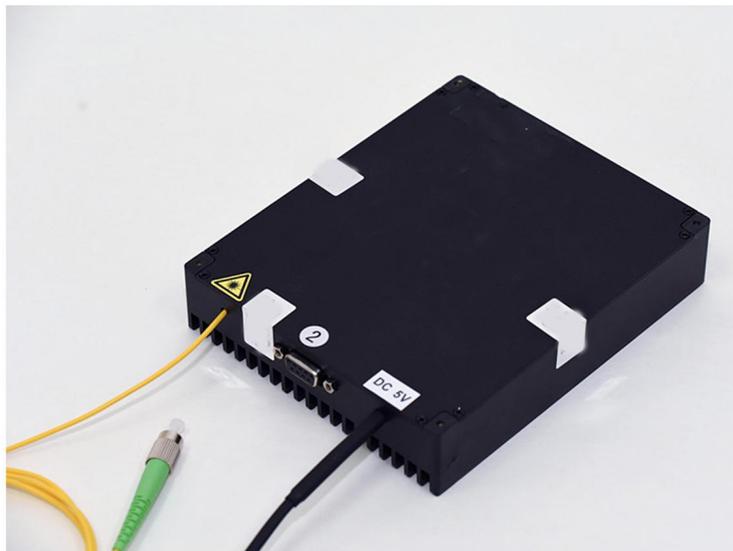


First-order fiber Raman amplifier



● Product Description

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



● Product features

Wide wavelength range、 High gain factor、 Low noise figure

● Part Number

MP-FRA-1550-500-B

● Application area

Long distance fiber communication、 Fiber-optic distributed sensing、 Fiber laser

● Core parameters

Signal Wavelength	Pump Power
1550nm	500mW

● General Parameters

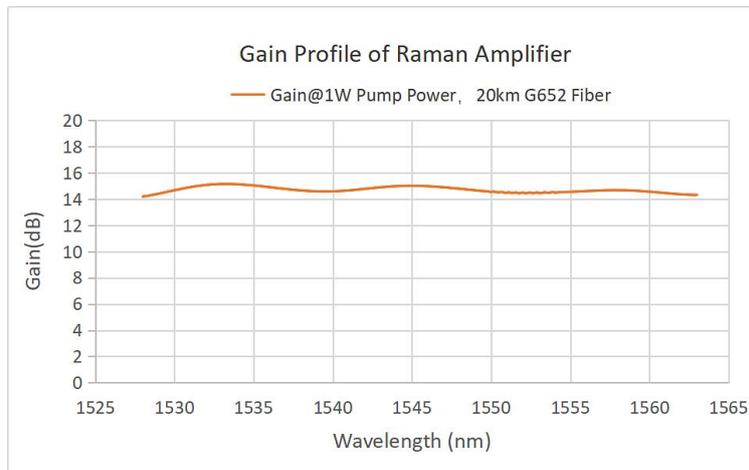
Parameter

Optical indicators	Unit	Typical	Notes
Pump wavelength	nm	1425~1465	
Signal wavelength	nm	1528~1565	Customize
Raman gain	dB	10/20	*Note4



Gain flatness	dB	<2	
Pump power	mW	300/500/1000/1400	Customize
Pump light polarization DOP	-	5% (Typical), 10%(Max)	
Noise index	dB	0	
Pigtail type	-	SMF-28	
Pigtail connector type	-	FC/APC	
Working mode	-	APPC (Automatic pump power control)	

Electrical and environmental parameters	Benchtop	Module
Control mode	Buttons	RS232Serial communication
Communication interface	Optional	DB25 Female
Power supply	AC100~240V,<45W	DC 12V3A
Dimensions	260(W)×280(D)× 120(H)mm	125(W)×150(D)× 30(H)mm
Operating temperature range	-5~+35°C	
Operating humidity range	0~70%	



Ordering Information

Ordering information / PN#			
FRA	Signal wavelength(nm)	Pump power(mW)	Packaging type
	1550	300/500/1000/1400	M=Module B=Benchtop

***Note4** That this amplifier is only a Raman amplifier pump and requires the use of long-distance quartz fibers in the user's system to generate sufficient signal gain.