

Hybrid Module of EDFA and Raman Amplifier

The module integrates the erbium-doped fiber amplifier and the first-order Raman fiber amplifier pump. Compared with traditional EDFA and Raman amplification systems, the use of this module can significantly reduce system complexity, improve reliability, and reduce volume. It is suitable for high-capacity, high-speed optical fiber communication systems or optical fiber sensing systems for ultra-long distances.

Key Features

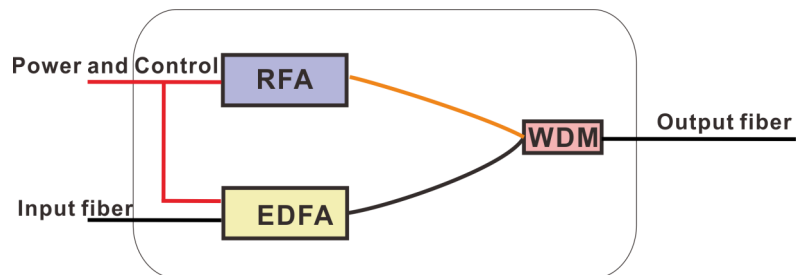
- Low noise
- High Gain
- Wide wavelength range

Applications

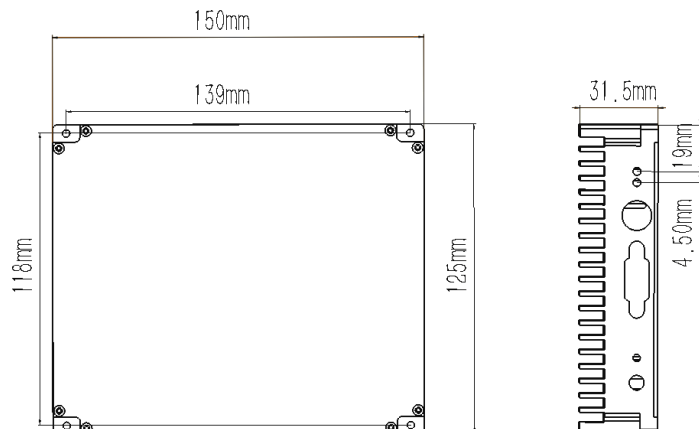
- Optical fiber distributed sensing
- Fiber Lasers
- Long-distance optical



Structure diagram:



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 Hybrid Module of EDFA and Raman Amplifier

EDFA:

Optical Parameter	Unit	Typical Values	Remark
Signal Wavelength	nm	1530~1565	C-band
Input Power	dBm	-6~+3	
Output power	dBm	23	@-3dBm input
Noise Figure	dB	5.0	@-3dBm input
Gain Flatness	dB	3	
Polarization dependent gain PDG	dB	<0.3	
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 Current Control (ACC)/ Automatic Power Control (APC)	

FRA:

Optical Parameter	Unit	Typical Values	Remark
Pump wavelength	nm	1425/1435/1455/1465	Accuracy: ±5nm
Pump Power	mW	500	Max power
Pump light polarization DOP	-	5% (Type), 10%(Max)	
Fiber Type	-	SMF-28	1.0m length
Optical Connector	-	FC/APC or Fiber collimator	
Control Mode	-	Automatic Current Control (ACC)	

Electrical and environmental parameters

Module

ControlMode	RS232
Communication Interface	DB 25 Female
Power Supply	12V3A, DC
Dimensions	125(W)×150(D)×30(H)mm
Operation Temperature Range	-5~+55°C
Operation Humidity Range	0~70%

Order information P/N: ①-②-③-④-⑤-⑥

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	⑤	⑥
HEA	Amplifier type	Output power(dBm)	Pump wavelength (nm)	Pump power (mW)	Package Type
	BA: BA amplifier	23	1455	500	M: Module B: Desktop

Ordering Information for Custom Parts

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