

O band 台式掺镨光纤放大器 (1280-1320nm 输出功率 > 100mW)



产品描述:

日本Fiberlabs光放大模块, 可选波段: O波段, S波段, C波段, L波段。放大器类型可选: 助推光光放大器 (Booster Amplifier), 预放大光放大器 (Pre-Amplifier)。低噪声, 增益8dB~40dB可选。AMP-FL8611-OB系列是一种基于掺镨氟化物玻璃光纤技术的O波段光纤放大器。该放大器在1300nm左右的原始通信带宽上实现了25dB以上的高信号增益。

产品特点:

- ☀ 输出功率: 13~22dBm
- ☀ 优异的噪声系数
- ☀ 平稳增益谱
- ☀ 低成本
- ☀ 输出功率与泵浦电流监测
- ☀ ACC / ALC模式操作

产品应用:

- ☀ 电信、数据通信
- ☀ 模拟应用
- ☀ 测试与测量
- ☀ 科学应用

技术参数:

名称	AMP-FL8611-OB-20	AMP-FL8611-OB-16	AMP-FL8611-OB-10
信号波长范围	1280 ~ 1320nm		
最大输出功率 *1	>+20dBm (>100mW)	>+16dBm (>40mW)	>+10dBm (>10mW)
增益 *2	>35dB	>20dB	>10dB
噪声系数 *2	<7dB		
放大控制模式	ACC / ALC		
监控参数	Input power, Output power, LD current, LD temperature, Case temperature		
安全保护功能	Remote shutdown interlock		
输入功率丢失提醒& 内锁 *3	<-10dBm		
远程控制接口	RS232C/IEEE488.2 (GP-IB)		
输入输出光纤	SMF		
光纤接头	FC/PC		
工作温度	0 ~ 40 °C		
存储温度	-10 ~ 60 °C		
尺寸(mm) *4: H x W x D	88 x 430 x 350	88 x 260 x 350	
功耗	<50W	<30W	
重量	7 Kg		
供电	AC 100 ~ 240V (50/60Hz)		

备注:

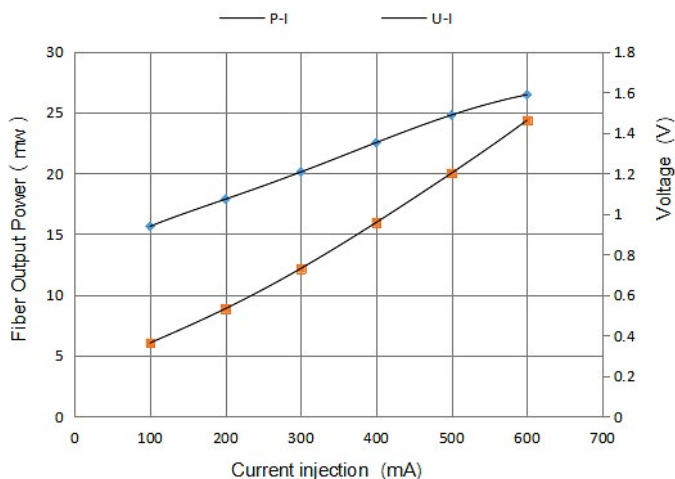
*1输入信号: 0dBm@1310nm

*2 输入信号: -30dBm@1310nm

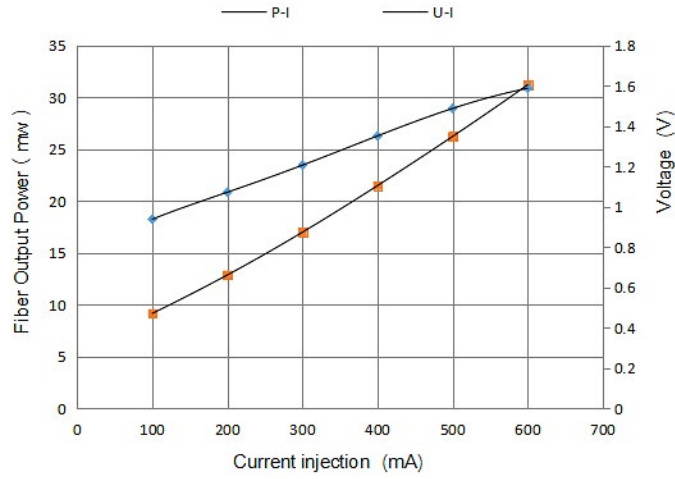
*3 目标值(阈值) 可以设定

*4 不包含凸起部分

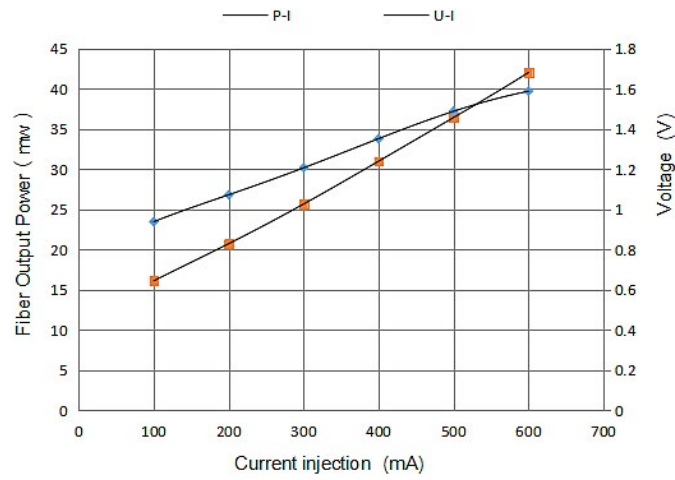
O波段放大器大功率曲线:



O波段放大器功率曲线 1.2mW

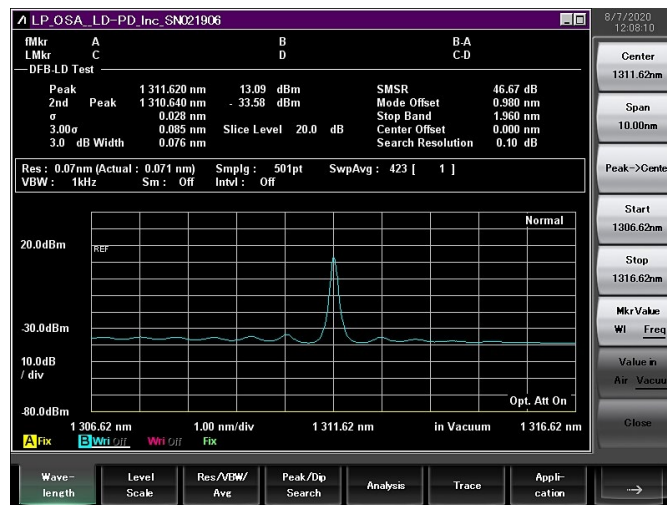


O波段放大器放大功率曲线 2.5mW

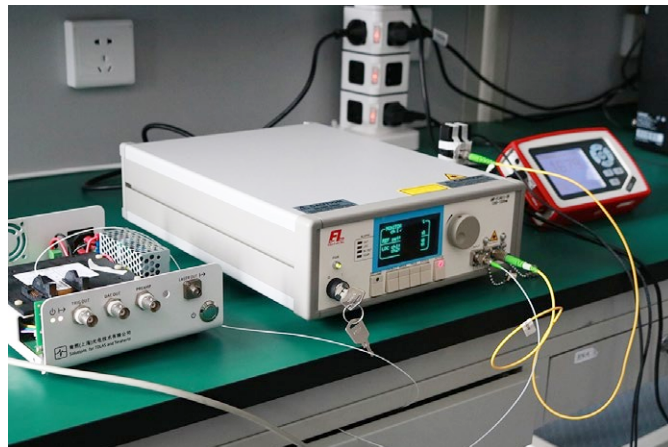
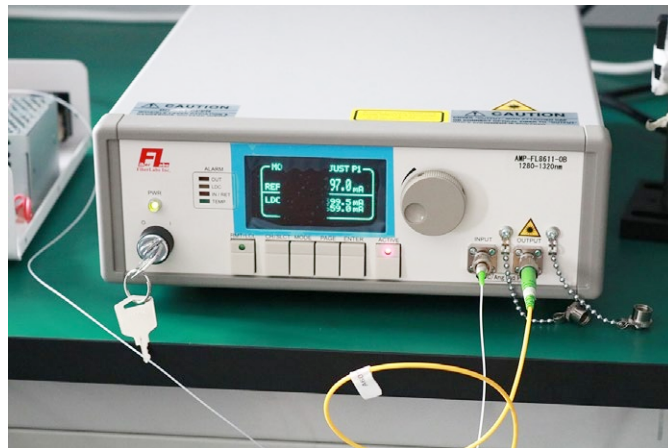
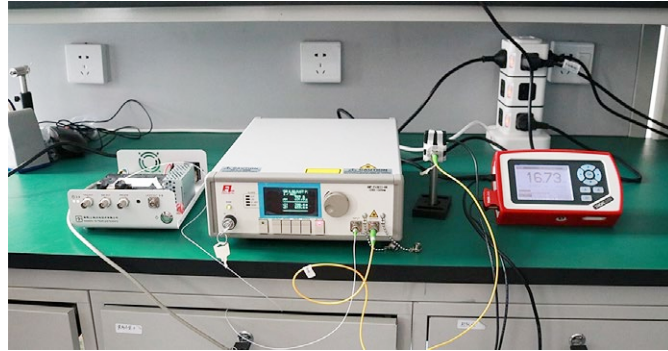


O波段放大器功率曲线 9mW

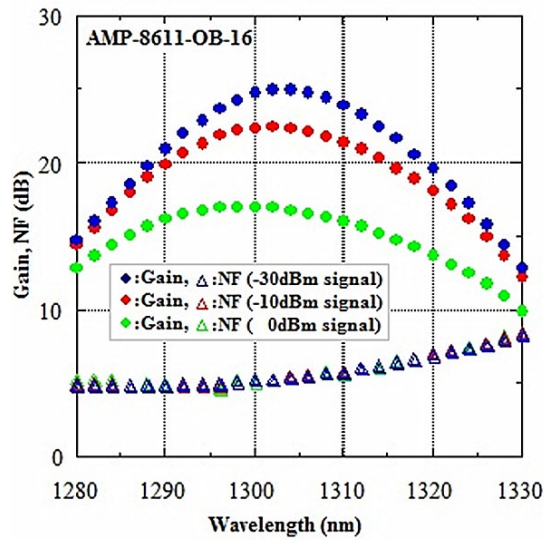
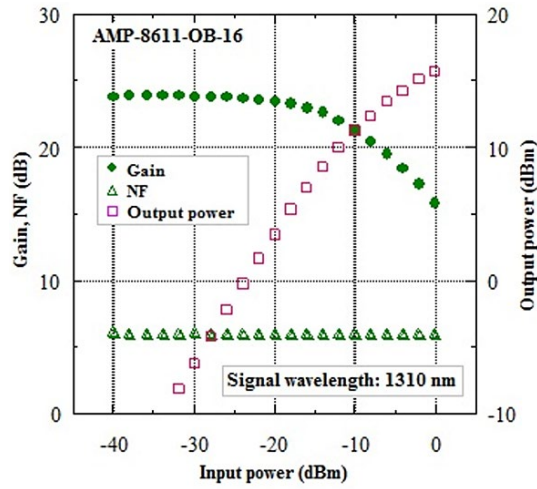
测试光源光谱图:



测试安装图:



典型特征:



* N/A : Not Available in this instrument

System Information	
Product number	AMP-FL8611-OB-16
Serial number	2286111605
Connector type (fiber)	FC / PC (Corning SMF28)
Number of pump LD	2
Option	-
- Additional notes -	

Test Data		
Parameters	Test data	Specification
Output Power [dBm] *1	+ 16.2	> + 16.0
Gain [dB] *2	22.8	> 20.0
Noise Figure [dB] *2	6.0	< 7.0

*1 : Input signal power : 0dBm / *2 : Input signal power : -30dBm / Signal wavelength : 1310nm

· Setting on Test

Pump LD ch.	ch.1	ch.2	ch.3	ch.4
Driving mode	ACC	ACC	N/A	N/A
Adjust value	900 mA	900 mA	N/A	N/A

· Measured by

Instruments	Model No.
Signal Light Source	FL DFBLD131001
Optical Spectrum Analyzer	ANDO AQ6317B
Optical Power Meter	HP 8153A / 81525A



Factory Default Setting				
Item	Setting value			
	#1	#2	#3	#4
Signal path				
Threshold of output power alarm [dBm]	+ 13	N/A	N/A	N/A
Threshold of input power alarm [dBm]	- 10	N/A	N/A	N/A
Threshold of return Loss alarm [dB]	N/A	N/A	N/A	N/A
Interlock on input / return alarm	OFF			
Auto recovery from interlock	OFF			
Pump LD channel	ch.1	ch.2	ch.3	ch.4
Driving mode	ACC	ACC (locked)	N/A	N/A
ACC (Auto-Current-Contol) setting [mA]	900	900	N/A	N/A
ALC (Auto-Light-Control) setting [dBm]	+ 16	N/A	N/A	N/A
AGC (Auto-Gain-Control) setting [dB]	N/A	N/A	N/A	N/A
Pump LD current limitation for safety [mA]	1048	1048	N/A	N/A
Threshold of pump LD current alarm [mA]	1038	1038	N/A	N/A
Threshold of pump LD temperature alarm [°C]	- 40	- 40	N/A	N/A
Threshold of case temperature alarm [°C]	50			

