

1550nm 5W Polarization Maintaining Erbium Doped Fiber Amplifier EDFA



● Product Description

Idealphotonics' optical amplifier module, optional bands: O-band, S-band, C-band, L-band. Optional amplifier types: Booster Amplifier, Pre-Amplifier. Low noise, gain 8dB~40dB optional. EDFA- C-B-40-ISO series is a C-band fiber amplifier with a wavelength of 1530-1560nm. It has a wide range of applications including high-speed data signals, image signals, and femtosecond pulse amplification applications. For WDM signals, it has



excellent gain smoothness throughout the L-band broadband. Max. output, input/output fiber, control method and appearance can be customized

- **Product features**

Output power: greater than 5W、 Excellent noise figure、 Stable gain spectrum、 Low cost、 Output power and pump current monitoring、 ACC mode operation

- **Part Number**

MP-EDFA-C-5W-PA

- **Application area**

Optical communication、 Test and measurement、 Scientific applications

- **Core parameters**

Wavelength	Output Optical Power	Connector
1530-1560nm	5W	FC/APC

- **General Parameters**

Parameter

Parameter	Indicator
Input power	0-10mW
Output maximum optical power (continuously adjustable)	>5W
Amplifier operating mode	ACC
Operating wavelength range	1530-1560nm
Test wavelength	1550nm
Input/output isolation	>30dB
SMSR	>40dB
Storage temperature range	-40°C-75°C
Output fiber type	PM1550nm
Output fiber connector	FC/APC
Output fiber length	>1m
Voltage	220/110AC 60/50Hz
Volume	260×320×120mm
Weight	2.5kg

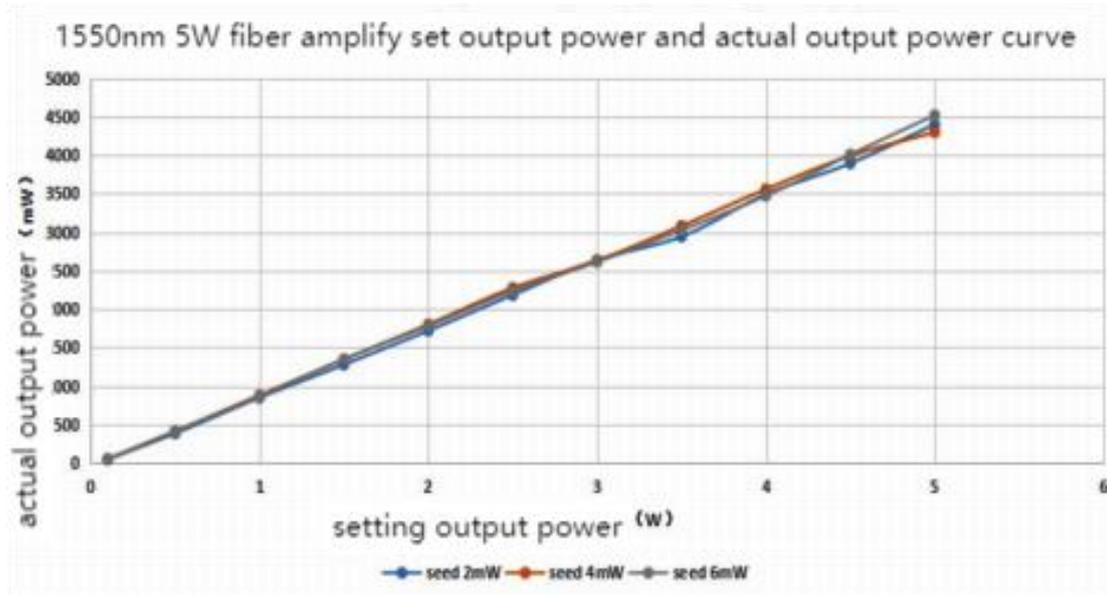


Test steps:

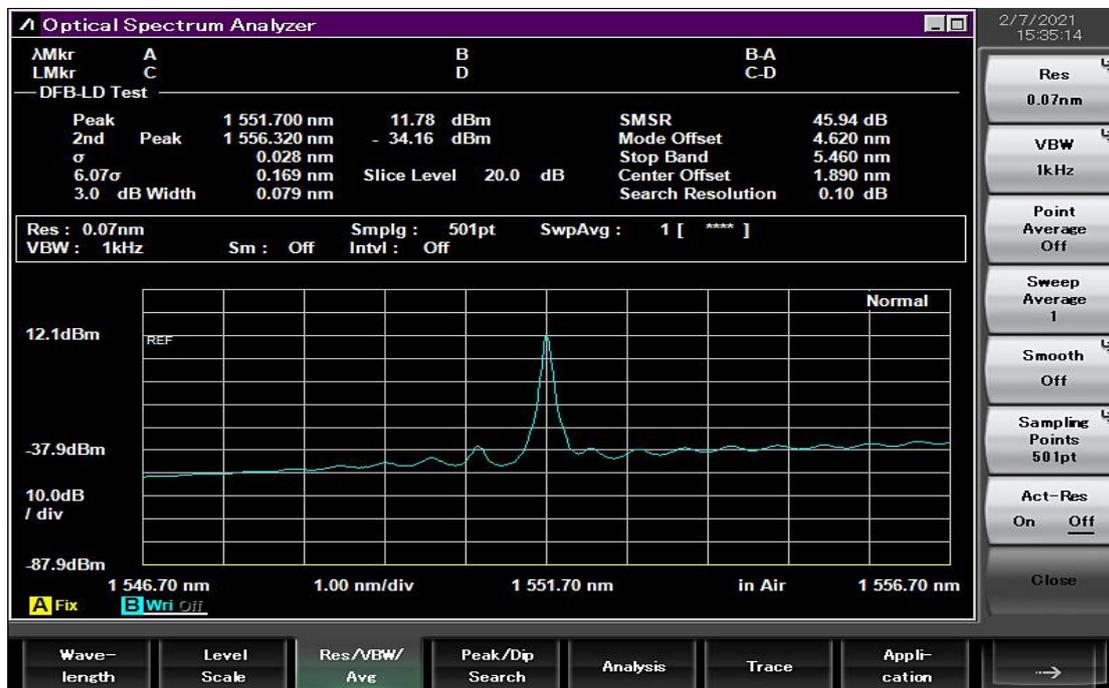
1. Install 1550nm DFB laser.
2. Connect the fiber amplifier to the power supply and turn on the power switch.
3. Use flange to connect the laser output to the fiber amplifier input.
4. Connect the fiber amplifier output to the power meter.
5. Turn on the seed source, then turn on the key switch of the fiber amplifier, press the enter key, adjust the power through the knob, or adjust the coarse or fine adjustment through the select key, then press the enter key, laser output, check the power or spectrum.
6. When shutting down, turn off the amplifier first, then turn off the seed source.



The fiber amplifier power curve



Fiber Amplifier Output Spectrum



(seed source 6mW, set power 0.1W)



Ordering Information

MP-EDFA-C--PG-OPP-ISO:

C=C band

L=L Band

C+L=C+L Band

PG: Packaging method

B: Benchtop

M: Module

OPP (Output Power): Output power, unit dBm

E.g. : 16-16dbm, 23-23dbm

ISO: Built-in isolator protection

0=None

1-Pump protection