

C-band gain flat Erbium-doped fiber amplifier(PA-GF PM 14dbm Module FC/APC)



● Product Description

The gain-flattened erbium-doped fiber amplifier is specially used in fiber laser or fiber communication systems. It can simultaneously amplify multiple wavelength signals in the C band and keep the gain between each wavelength consistent. The gain flatness is ≤ 1.5 dB. It has the ability to simultaneously amplify multiple wavelengths in a wide spectrum, as well as the advantages of gain flatness, adjustable gain, high gain and low noise.

● Product features

Gain flatness、 High gain coefficient、 Wide wavelength range

● Part Number

MP-EDFA-C-14-M-PA-GF-PM

● Application area

Fiber optic communication、 Fiber optic sensing、 Fiber optic laser

● Core parameters

Wavelength range	Saturated output power	Gain flatness
1530~1565nm	14dbm	≤1.5dB

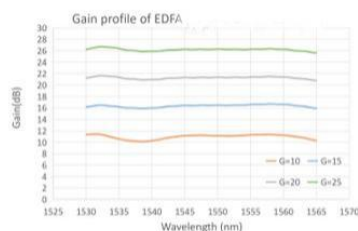
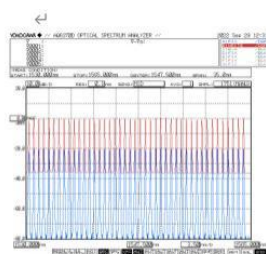
● General Parameters

Main Parameters:

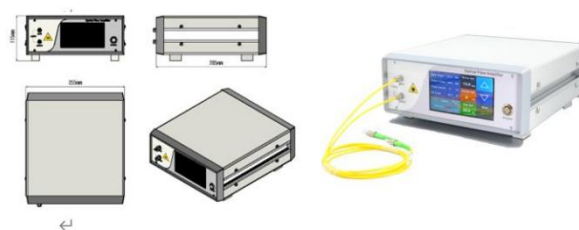
Optical indicators	Unit	Typ			Note
Wavelength range	nm	1530~1565nm			
Input power	dBm	-45~-25	-12~ +3	-25~ +3	Customizable
Max. output power	dBm	14	17/20/23/25/26		
Adjustment range	dB	25	25	25	

Noise index	dB	5	5	5.5	
Working mode	-	ACC/APC/AGC			
Parameter adjustment range		ACC : 0~100% ; APC : 10%~100% ; AGC : 0 ~25dB			
Gain flatness	dB	≤ 1.5			APC/AGC , 10~25dB
Input/output isolation	dB	>35			
Optical power monitoring	-	Input and output optical power monitoring			
Fiber and connectors	-	SMF-28	PM1550	FC/APC connector	
Polarization-dependent gain	dB	≤ 0.3	-		
Polarization mode dispersion	ps	0.5	-		
Polarization extinction ratio	dB	-	≥ 23		

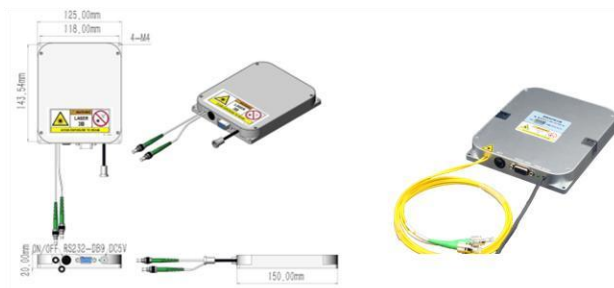
Electrical and environmental parameters	Benchtop	Modules
Control mode	Button/RS232 serial communication	RS232 Serial communication
Communication interface	DB9 Female	DB9 Female
Power supply	100~240V AC, <30W	5V DC, <15W
Dimensions	260(W) × 280(D) × 120(H)mm	125(W) × 150(D) × 20(H)mm
Operating temperature range	-5~ +35°C	
Operating humidity range	0~70%	



Dimensions:



Desktop object and Dimensions



M20 Modular Model and Dimensions

Appendix 1: Optional Configuration Table

C-Band Gain-Flattened Erbium-Doped Fiber Amplifier	Optional Configuration						
	Working wavelength	Type	Saturated output power	Fiber Type	Conn ector s	Packa ge Type	Optional configura tion reserved
Erbium-doped fiber amplifier	C wavel ength	Gain-flat small signal amplifier PA-GF	11-15db m	Single Mode	FC/A PC	Modu les	

		Gain-flat power amplifier BA-GF	16-20db m	Polariza tion Maintain ing		Benc htop	
		Gain-flat line amplifier LA-GF	21-25db m				
			26-30db m				

Appendix 2:Part Number and Stock Number Comparison Table

PN#	Specification
MP-EDFA-C-14- M-PA-GF-PM	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened small signal amplifier PA-GF, saturated output power: 14dbm, polarization-maintaining, FC/APC connector, module
MP-EDFA-C-14- B-PA-GF-SM	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened small signal amplifier PA-GF, saturated output power: 14dbm, single mode, FC/APC connector, benchtop

MP-EDFA-C-23/2 5-M-BA-GF-SM	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened power amplifier BA-GF, saturated output power: 23/25dbm, single mode, FC/APC connector, module
MP-EDFA-C-26- M-BA-GF-SM	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened power amplifier BA-GF, saturated output power: 26dbm, single mode, FC/APC connector, module
MP-EDFA-C-17/2 0-M-BA-GF-PM	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened power amplifier BA-GF, saturated output power: 17/20dbm, polarization-maintaining, FC/APC connector, module
MP-EDFA-C-23/2 5-M-BA-GF-PM	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened power amplifier BA-GF, saturated output power: 23/25dbm, polarization-maintaining, FC/APC connector, module
MP-EDFA-C-26- M-BA-GF-PM	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened power amplifier BA-GF, saturated output power: 26dbm, polarization-maintaining, FC/APC connector, module
MP-EDFA-C-26- B-BA-GF-SM	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened power amplifier BA-GF, saturated output power: 26dbm, single mode, FC/APC connector, benchtop

MP-EDFA-C-23/2 5-B-LA-GF-SM	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened line amplifier LA-GF, saturated output power: 23/25dbm, single mode, FC/APC connector, benchtop
MP-EDFA-C-26- B-LA-GF-SM	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened line amplifier LA-GF, saturated output power: 26dbm, single mode, FC/APC connector, benchtop
MP-EDFA-C-17/2 0-B-LA-GF-PM	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened line amplifier LA-GF, saturated output power: 17/20dbm, polarization-maintaining, FC/APC connector, benchtop
MP-EDFA-C-23/2 5-B-LA-GF-PM	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened line amplifier LA-GF, saturated output power: 23/25dbm, polarization-maintaining, FC/APC connector, benchtop
MP-EDFA-C-26- B-LA-GF-PM	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened line amplifier LA-GF, saturated output power: 26dbm, polarization-maintaining, FC/APC connector, benchtop