

# **C-band gain-flattened erbium-doped fiber amplifier, saturated output power: 26dbm, polarization-maintaining, FC/APC connector, benchtop**



## **● 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  $\leq 1.5$  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

## **● Part Number**

EA0LFDPA8

## **● Product features**

Gain flatness、 High gain coefficient、 Wide wavelength range

## ● Application area

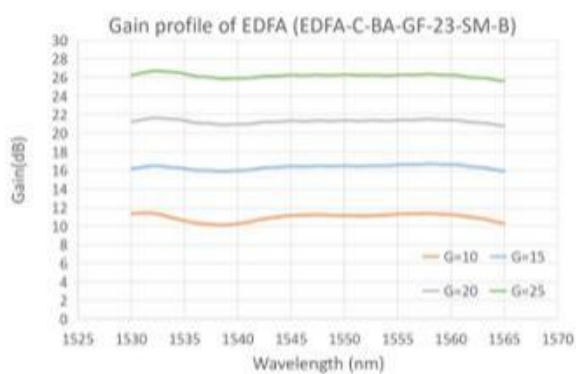
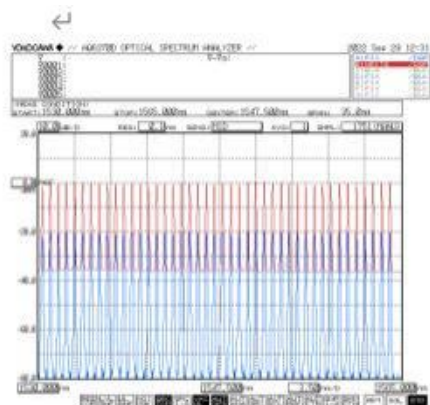
Fiber optic communication、 Fiber optic sensing、 Fiber optic laser

## Main Parameters:

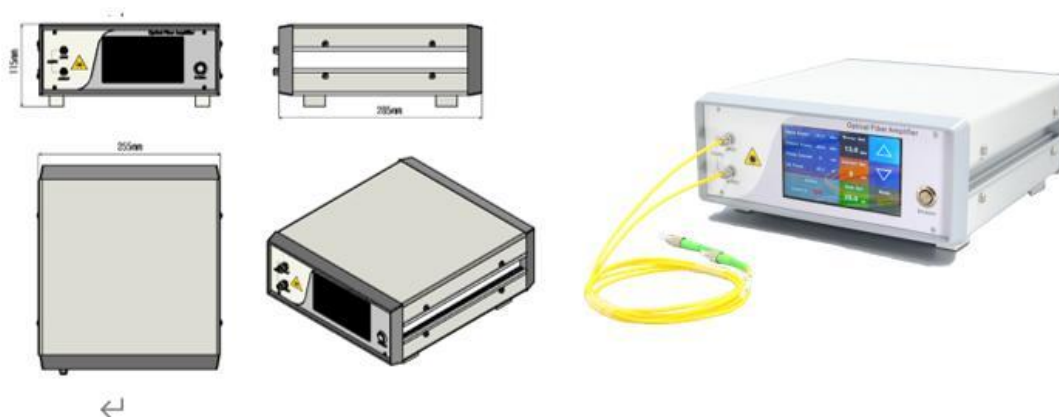
Optical indicators	Unit	Typ			Note
Model		EA0PF	EA0BF	EA0LF	
Wavelength range	nm	1530~1565nm			
Input power	dBm	-45~-25	-12~ +3	-25~ +3	Customizable
Max. output power	dBm	14	17/20/23/25/26		
Adjustment range	dB	25	25	25	
Noise index	dB	5	5	5.5	
Working mode	-	ACC/APC/AGC			
Parameter adjustment range		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	Desktop	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

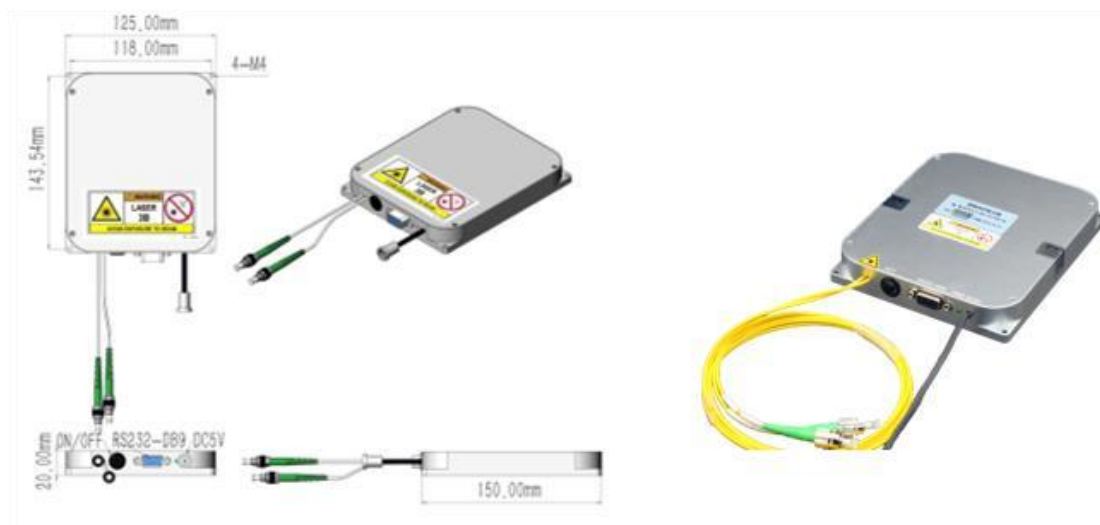
Dimensions	260(W) × 280(D) × 120(H)mm	125(W) × 150(D) × 20(H)mm
Operating temperature range	-5~ +35°C	
Operating humidity range	0~70%	



## 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						
Product Name	Working wavelength	Type	Saturated output power	Fiber Type	Connectors	Package Type	Optional configuration reserved
EA: Erbium-doped fiber amplifier	0: C wavelength	PF: Gain-flat small signal amplifier PA-GF	A: 11-15dbm	S: Single Mode	A:FC/APC	M: Modules	
		BF: Gain-flat power amplifier BA-GF	B : 16-20dbm	P: Polarization Maintaining		B : Benchtop	

		LF: Gain-flat line amplifier LA-GF	C : 21-25db m				
			D : 26-30db m				

## Appendix 2:Part Number and Stock Number Comparison

Table

PN#	Stock Number	Specification
EA0PFASAM	B80030304	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened small signal amplifier PA-GF, saturated output power: 14dbm, single mode, FC/APC connector, module
EA0PFAPAM	B80030305	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
EA0PFASAB	B80030306	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
EA0PFAPAB	B80030307	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened small signal amplifier PA-GF, saturated output power: 14dbm, polarization-maintaining, FC/APC connector, benchtop
EA0BFBSAM	B80030308	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened power amplifier BA-GF, saturated output power: 17/20dbm, single mode, FC/APC connector, module
EA0BFCSAM	B80030309	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
EA0BFDSAM	B80030310	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened power amplifier BA-GF, saturated output power: 26dbm, single mode, FC/APC connector, module
EA0FBPAM	B80030311	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

EA0BFCPAM	B80030312	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
EA0BFDPAM	B80030313	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened power amplifier BA-GF, saturated output power: 26dbm, polarization-maintaining, FC/APC connector, module
EA0BFBSAB	B80030314	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened power amplifier BA-GF, saturated output power: 17/20dbm, single mode, FC/APC connector, benchtop
EA0BFCSAB	B80030315	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened power amplifier BA-GF, saturated output power: 23/25dbm, single mode, FC/APC connector, benchtop
EA0BFDSAB	B80030316	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened power amplifier BA-GF, saturated output power: 26dbm, single mode, FC/APC connector, benchtop
EA0BFBPAB	B80030317	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened power amplifier BA-GF, saturated output power: 17/20dbm, polarization-maintaining, FC/APC connector, desktop
EA0BFCPAB	B80030318	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened power amplifier BA-GF, saturated output power: 23/25dbm, polarization-maintaining, FC/APC connector, benchtop
EA0BFDPAB	B80030319	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened power amplifier BA-GF, saturated output power: 26dbm, polarization-maintaining, FC/APC connector, benchtop
EA0LFBSAM	B80030320	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened line amplifier LA-GF, saturated output power: 17/20dbm, single mode, FC/APC connector, module
EA0LFCSAM	B80030321	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened line amplifier LA-GF, saturated output power: 23/25dbm, single mode, FC/APC connector, module
EA0LFDSAM	B80030322	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened line amplifier LA-GF, saturated output power: 26dbm, single mode, FC/APC connector, module
EA0LFBPAM	B80030323	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened line amplifier LA-GF, saturated output power: 17/20dbm, polarization-maintaining, FC/APC connector, module
EA0LFCPAM	B80030324	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened line amplifier LA-GF, saturated output power: 23/25dbm, polarization-maintaining, FC/APC connector, module



EA0LFDPAM	B80030325	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened line amplifier LA-GF, saturated output power: 26dbm, polarization-maintaining, FC/APC connector, module
EA0LFBSAB	B80030326	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened line amplifier LA-GF, saturated output power: 17/20dbm, single mode, FC/APC connector, benchtop
EA0LFCSAB	B80030327	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
EA0LFDSAB	B80030328	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened line amplifier LA-GF, saturated output power: 26dbm, single mode, FC/APC connector, benchtop
EA0LFBPAB	B80030329	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
EA0LFCPAB	B80030330	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
EA0LFDPAB	B80030331	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened line amplifier LA-GF, saturated output power: 26dbm, polarization-maintaining, FC/APC connector, benchtop