

C+L Band Erbium-Doped Fiber Amplifier (Module Type) with Saturated Output of 27dBm



● Product Description

C+L band erbium-doped fiber power amplifier (BA amplifier for short) can be used to amplify optical signals in the power range of -6dBm~+3dBm or higher. The maximum saturated output power is 27dBm. It is often used to

increase the transmission power of laser light sources. (Erbium-doped Fiber

Booster Amplifier for C-band and L-band

● Product features

Wide wavelength range、 High output power、 Low noise

● Part Number

MP-EDFA-CL-27-SM-M

● Application area

Fiber optic communication、 Fiber optic sensing、 Fiber optic laser

● Core parameters

Wavelength Range	Input Power	Total Output Power
1528~1603	-6~+3dBm	27dBm

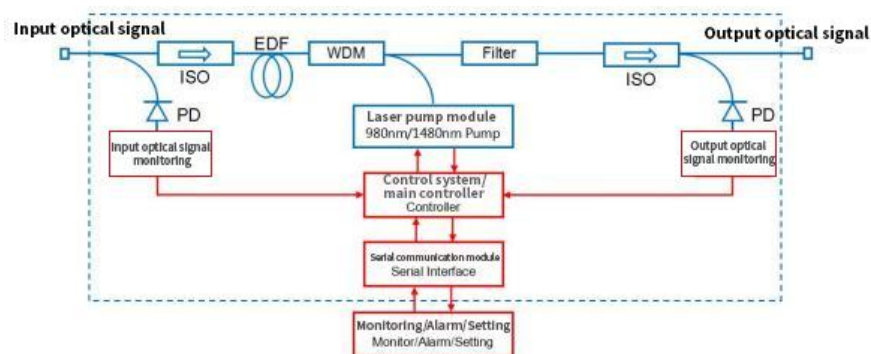
• General Parameters

Parameter

parameter	Unit	Typ	Note
Wavelength range	nm	1528~ 1563	C-band
		1570~ 1603	L-band
Input power	dBm	-6~+3	
Saturated output power	dBm	27	@-3dBm input
Noise figure	dB	≤5.0	@-3dBm input
Polarization-dependent gain	dB	<0.3	
Polarization mode dispersion	ps	0.5	
Input/output isolation	dB	>35	
Optical power monitoring	-	Output optical power monitoring	
Pigtail type	-	SMF-28	
Pigtail connector type	-	FC/APC	
Operating mode		(APC)Automatic Current Control (ACC)/Automatic Power Control (APC)	*note

Electrical and Environmental Parameters	Benchtop	Module
Control mode	button	RS232 serial communication
Communication interface	DB9 Female	DB9 Female
Power supply	100~240V AC,<30W	12V DC,<24W
Dimensions	260(W) × 320(D) × 120(H)mm	139×235×70mm Module
Operating temperature range	-5~+35 °C	
Operating humidity range	0~70%	

Product schematic diagram



Ordering Info/pn#					
EDF A	Working wavelength	PG Package	OPP Saturated output power(dBm)	Fiber Type	ISO
	C=C wavelength L=L wavelength C+L	M=Module B= Benchtop	27	SM=Single mode fiber	0 None 1 Pump protection

***Note: ACC mode - automatic current control:** The user sets the EDFA pump operating current, and the EDFA automatically locks it to achieve constant pump current. When the input optical power fluctuates, the output power will also fluctuate accordingly. It is applicable to all EDFA models. PA amplifiers only support ACC mode.

APC mode - automatic power control: The user sets the EDFA signal light output power, the PD automatically monitors and feedbacks the output power, and the EDFA controls and adaptively adjusts the pump to achieve output signal stability. In APC mode, the power adjustment range is usually 10%~100%. The advantage of APC mode is that when the input optical power fluctuates, the EDFA will reduce the output power fluctuation as much as possible. It is applicable to power-type and line-type EDFAs, but not suitable for low repetition frequency pulse signals.