C+L band erbium-doped fiber amplifier

Benchtop(saturated output 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, with a maximum saturated output power of 27dBm. It is often used to increase the emission power of laser light sources.

Product features

Wide wavelength range、High output power、Low noise

Part Number

MP-EDFA-CL-27-SM-B

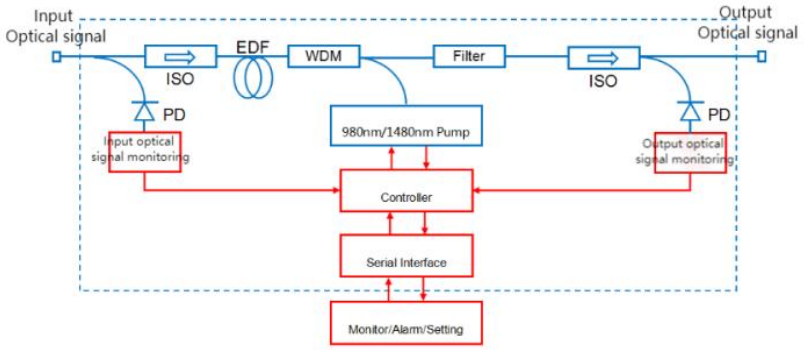
Application area

Fiber optic communication 、 Fiber optic sensing 、 Fiber laser systems

Core parameters

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

General Parameters



Main Parameters

Optical Specifications	Unit	Typical Value	Remarks
Wavelength Range	nm	1528~1563	C-band
		1570~1603	L-band
Input Power	dBm	-6~+3	
Total 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 typr	-	FC/APC	
Operating mode		ACC/APC	*Note

Electrical and Environmental Parameters	Benchtop	Module
Control Method	Keypad / 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%	

Order information / PN#					
EDFA	Operating wavelength	PG Packaging	OPP Saturation output power (dBm)	Fiber type	ISO Built-in isolator protection
	C=C band L=L band 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. The power adjustment range in APC mode 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 EDFA, but not suitable for low repetition frequency pulse signals.

Attachment 1: Optional Configuration Table

C++ Band Gain Flattened Erbium-Doped Fiber Amplifier	Optional Configurations						
Product Name	Operating Wavelength	Amplifier Type	Saturation Output Power	Fiber Type	Connector	Package Type	Reserved Optional Configurations
"Erbium-Doped Fiber Amplifier"	C++ Band	Gain Flattened Power Amplifier	16-20dbm	Single Mode	FC/APC	Module	
			21-25dbm			Benchtop	

Attachment 2: Model and Product Number Cross-Reference Table

Specifications
C++ Band Gain Flattened Erbium-Doped Fiber Power Amplifier, C++ Band, Gain: 16dB, Saturation Output Power: 20dBm, Single Mode Fiber, FC/APC, EDFA Module
C++ Band Gain Flattened Erbium-Doped Fiber Power Amplifier, C++ Band, Gain: 16dB, Saturation Output Power: 20dBm, Single Mode Fiber, FC/APC, EDFA Desktop
C++ Band Gain Flattened Erbium-Doped Fiber Power Amplifier, C++ Band, Gain: 16dB, Saturation Output Power: 24dBm, Single Mode Fiber, FC/APC, EDFA Module
C++ Band Gain Flattened Erbium-Doped Fiber Power Amplifier, C++ Band, Gain: 16dB, Saturation Output Power: 24dBm, Single Mode Fiber, FC/APC, EDFA Desktop