

Single Channel Erbium-doped Fiber Booster Amplifier

Model #: EDFA

Description:

This single channel booster-amplifier can be used to amplify optical signal power in the range of -6dBm to +3dBm to the saturation power as high as 26 dBm, which can be used after an optical transmitter.

Application:

- Optical fiber communication
- Optical fiber sensor
- Fiber laser

Features:

- Wide wavelength range
- High output power
- Low noise

Specification List

Parameter	Unit	Specification	Notes
Optical Specification			
Operating Wavelength	nm	1530 ~ 1565	C - band
Saturation Output Power	dBm	15/17/20/23/25/26	@ -3dBm input
Input Power	dBm	-6 ~ +3	
Gain Flatness	dB	<3	
Noise Figure	dB	<5.0	@-3dBm input
Min. Isolation (Input / Output Port)	dB	>35	
Polarization Dependent gain	dB	< 0.3	
Polarization Mode Dispersion	ps	<0.5	
Fiber Type		SMF-28	
Connector		FC/APC	
Operation Mode	dB	ACC/APC ⁽¹⁾	
Environmental Specification			
Operating Temperature	°C	-5 to +55	
Storage Temperature	°C	-40 to +	
Humidity (3)	%	0 ~ 70	
Mechanical Specification			
Dimension	Module	mm	125 (W) x 150 (D) x 20 (H)
	Desktop		260 (W) x 280 (D) x 120 (H)
Electrical Specification			
Dimension	Module	mm	5VDC, < 15W
	Desktop		110-240VAC, <30W @ 25C°
Communication Interface			
LCD Display	-		Output power, pump current
Control	-		RS232 serial communication
Computer Interface	-		DB9 Female

- (1) ACC mode-automatic current control: EDFA pumping working current is set by the user and automatically locked by EDFA to achieve constant pumping current. When the input optical power fluctuates, the output power will also fluctuate accordingly, which is applicable to all EDFA models.
- (2) APC mode-automatic power control: the user sets the EDFA signal light output power, PD automatically monitors and feeds back the output power, EDFA control and adaptive adjustment of the pump to stabilize the output signal. When the input optical power fluctuates, the APC mode will reduce the output power fluctuation as much as possible, which is suitable for power type and line type EDFA.

Ordering Information: EDFA-A-B-C-D

A: wavelength	B: EDFA type	C: saturation power	D: dimension
C – C - band	BA – booster amplifier	15 – 15 dBm	M - module
		17 – 17 dBm	B - benchtop
		20 – 20 dBm	
		25 – 25 dBm	
		26 – 26 dBm	

Laser Safety Information:

IIIb laser product

Single-mode fiber pigtail with connector

Wavelength: 0.96~1.68 μ m

The max power: <400mW

Don't carry Products under the state of charged

Caution: any control, adjust, treatment may cause dangerous laser radiation besides above notice

