# 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

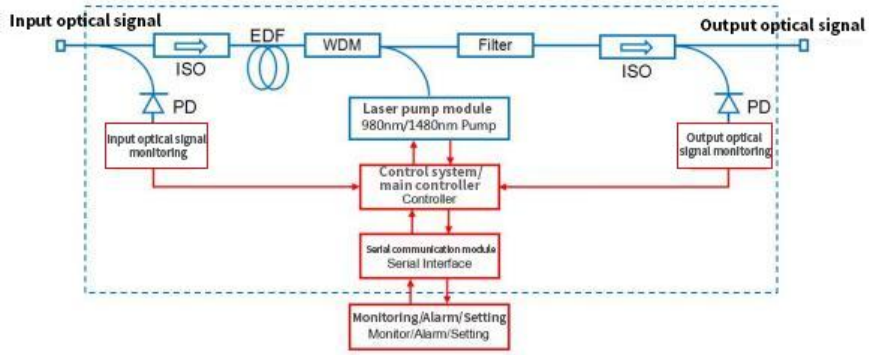
Parameter

| 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 | |

| parameter | Unit | Typ | Note |
|---|---|---|---|
| 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# | | | | | |
|---|---|---|---|---|---|
| EDFA | Working wavelength | PG Package | OPP Saturated output power(dBm) | Fiber Type | ISO |
| | C=C wavelength<br>L=L wavelength<br>C+L | M=Module<br>B= Bench top | 27 | SM=Single mode fiber | 0 None<br>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.