

## Erbium-doped Fiber Booster Amplifier for C-band

Erbium doped fiber booster 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 26dbm. It is often used to improve the emission power of laser light source.

### Characteristics

- High Gain
- High Power
- Low Noise

### Applications

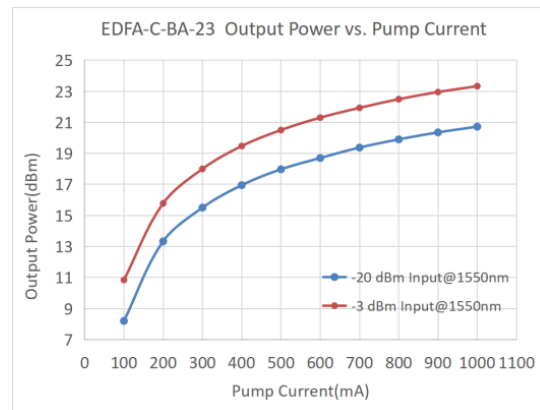
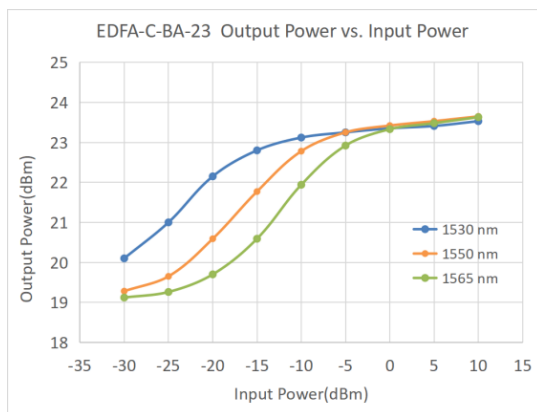
- Fiber Communication
- Fiber Sensing
- Fiber Laser



Desktop Model



OEM Model



Optical Parameters	Unit	Typical Value	Remarks
Operating Wavelength	nm	1530~1565	C-band
Input Signal Power	dBm	-6~+3	
Saturation Output Power	dBm	15/17/20/23/25/26	@ -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 power	
Optical Fiber	-	SMF-28 SM fiber	
Fiber connectors	-	FC/APC	
Control mode		ACC/ APC	*Note 2

General Parameters	Benchtop	Module
Control function	Keystroke	RS232 serial Communication
Remote Control Port	Optional	DB9 Female
Power Supply	AC100~240V, <30W	DC5V, <15W
Dimensions	260(W)×280(D)×120(H)mm	125(W)×150(D)×20(H)mm
Operation Temperature	-5~+35°C	
Operation Humidity	0~70%	

Ordering Information/ Model Number					
EDFA	wavelength	Type	Saturation Output Power	Fiber	Packaging
	C=C band	BA=Booster Amplifier	15/17/20/23/25/26 (dBm)	SM=SMF-28	M - Module B - Desktop

\*Note 2: ACC mode – automatic current control: EDFA pump working current is set by the user and automatically locked by EDFA to achieve constant pump current. When the input optical power fluctuates, the output power will fluctuate accordingly. Applicable to all EDFA models, PA amplifier only supports ACC mode.

APC mode – automatic power control: the user sets the signal optical output power of EDFA, and the built-in PD monitoring and feedback control the output power. EDFA automatically adjusts the pump power to stabilize the output signal. The output power regulation range in APC mode is usually 10% - 100%. The advantage of APC mode is that when the input optical power fluctuates, EDFA will reduce the fluctuation of output power as much as possible. It is suitable for power type and line type EDFA, but not for low repetition rate pulse signal.