

Gain Flattened Erbium-doped Fiber Amplifier for C-band

The Gain Flattened Erbium-doped Fiber Amplifier is a series of fiber amplifiers specially used in optical fiber communication systems. It can amplify multiple wavelength signals in the C-band at the same time, and maintain the same gain between wavelengths, with gain flatness of ≤ 1.5 dB. It has the advantages of a wide spectrum, multiple wavelengths, flat gain, high gain, and low noise.

Characteristics

- Gain Flattening
- High Power
- High Gain

Applications

- Fiber Communication
- Fiber Sensing
- Fiber Laser



Desktop Model



OEM Model

Optical Parameters	Unit	Typical Value		Remarks
		PA-GF	BA-GF	
Product Type		PA-GF	BA-GF	
Operating Wavelength	nm	1530~1560nm		
Input Signal Power	dBm	-32~-25	-26~-10	
Saturation Output Power	dBm	14	17/20/23	
Gain	dB	25	25	
Noise Figure	dB	5	5	
Gain Flatness	dB	1.5(Type) 0.8(Min)		Peak to Peak
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		
Fiber connectors	-	FC/APC		
Control mode	-	ACC	ACC/APC	

General Parameters	Desktop	Module
Control function	Push button	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 / Product Code					
EDFA	wavelength	Product Type		Fiber	Packaging
	C=C band	PA-GF =Gain Flattened Pre-Amplifier	Gain 25(dB)	SM=SMF-28	M=module B=Desktop
		BA-GF =Gain Flattened Booster Amplifier	Saturated Power 17/20/23(dBm)		