

Erbium-doped Fiber In-Line Amplifier for C-band

Erbium-doped fiber in-line amplifier (LA amplifier for short) is an optical power amplifier product specially used for line relay in fiber laser or fiber communication systems. It combines the advantages of PA amplifier and BA amplifier, can provide high gain for small signals, and has relatively high output power; has the advantages of high gain, high transmit power, and low noise, and is used between fiber segments to increase the relay length or to compensate for branch losses in the corresponding single-point-to-multipoint part of the optical access network.

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	-25 ~ -3	
Saturation Output Power	dBm	13/17/23/25/26	@-10dBm input
Small Signal Gain	dB	35	@-25dBm input
Noise Figure	dB	5.5	@-10dBm input
Polarization Dependent Gain	dB	0.5	
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/ APC	

General Parameters	Desktop	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	LA=In-Line Amplifier	13/17/20/23/25/26 (dBm)	SM=SMF-28	M - Module B - Desktop