

High Power Polarization Maintaining EDFA for L-band

The high-power polarization-maintaining erbium-doped fiber amplifier is based on the principle of laser amplification of optical signals in erbium-doped fibers and adopts a unique multi-stage optical amplification design and a reliable high-power laser heat dissipation process to achieve high-power polarization-maintaining lasers with wavelengths of 1570~1605nm. output. It has the advantages of high power, high extinction ratio and low noise, and can be used in optical fiber communication, lidar, etc.

Characteristics

- High Gain
- High output Power
- Low Noise

Applications

- Optical Communications
- Fiber Sensing
- LiDar

Optical Parameters	Unit	Typical Value	Remarks
Operating Wavelength	nm	1570~1605	
Input Signal Power	dBm	-6~+10	
Saturation Output Power	dBm	27/30/33/37	@0dBm input
Noise Figure	dB	<6.0	@0dBm input
Polarization Extinction Ratio	ps	23(Type), 20(Min)	
Input/output Isolation	dB	>35	
Optical Power Monitoring	-	Input Power/Output Power	
Optical Fiber	-	PM1550	
Fiber connectors	-	FC/APC	For power test only
Control mode		ACC/APC	

General Parameters		Desktop	Module
Control Function		Keystroke	RS232 serial Communication
Remote control Port		Optional	DB9 Female
Power Supply		AC100~240V,<150W	12V DC, <60W
Dimensions	27/30/33dBm	260(W)×320(D)×120(H)mm	125(W)×150(D)×30(H)mm
	35/37 dBm	360(W)×350(D)×120(H)mm	139(W)×235(D)×70(H)mm
Operation Temperature		-5~+35°C	
Operation Humidity		0~70%	

Ordering Information/ Model Number					
EDFA	wavelength	Type	Saturation Output Power	Fiber	Packaging
	L=L band	HP-BA=High Power Booster Amplifier	27/30/33/37 (dBm)	PM=Pm1550	M=Module B=Desktop