

High-Power Polarization Maintaining EDFA for C-band

The C-band 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 reliable high-power laser heat dissipation technology to achieve high-power lasers with wavelengths of 1535~1565nm polarization-maintaining 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 output Power (up to 10W of Power)
- High gain
- High Polarization Extinction Ratio

Applications

- Fiber Communication
- Fiber Sensing
- LiDAR

Optical Parameters	Unit	Typical Value	Remarks
Operating Wavelength	nm	1535~1565	Customizable
Input Signal Power	dBm	-6~+10	
Saturation Output Power	dBm	27/30/33/35/37/40	@0dBm Input
Small Signal Gain	dB	<6.0	@0dBm Input
Noise Figure	dB	<0.5	
Polarization Extinction Ratio	ps	0.5	
Polarization Mode Dispersion	dB	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		Key lock switch, Push button	RS232 serial Communication
Remote Control Port		Optional	DB9 Female
Power Supply		AC100~240V, <150W	12V DC, <60W
Dimensions	27/30/33/35dBm	260(W)×320(D)×120(H)mm	125(W)×150(D)×30(H)mm
	37/40 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					
EYDFA	Wavelength	Product Type	Saturation Output Power	Fiber	Packaging
	C=C band	HP-BA=High Power Booster Amplifier	27/30/33/35/37/40(dBm)	PM=PM1550	M=Module B=Desktop