High Power Single-Mode Erbium-doped Fiber Amplifier for C-band

The high-power erbium-doped fiber amplifier (EYDFA-HP) is based on the principle of laser amplification of optical signals in erbium-ytterbium co-doped fibers. It adopts a uniquely designed amplifying optical path and a reliable high-power laser heat dissipation process to achieve high performance in the wavelength range of 1535~1565nm. Power laser output. It has the advantages of high power and low noise, and can be used in optical fiber communication, lidar, etc.

Characteristics

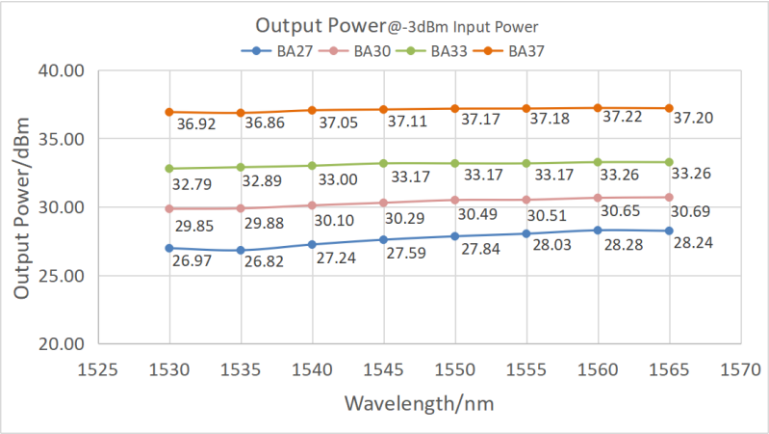
- Up to 10W of output power
- High gain
- Wide operation bandwidth

Applications

- Fiber Communication
- Fiber Sensing
- Fiber Laser

Desktop Model

OEM Model



Optical Parameters	Unit	Typical Value	Remarks
Operating Wavelength	nm	1535~1565	
Input Signal Power	dBm	-6~+10	
Saturation Output Power	dBm	27/30/33/35/37/40	@-3dBm input
Noise Figure	dB	<6.0	
Gain Flatness	dB	≤1	* note2
Polarization Dependent Gain	dB	<0.5	
Polarization Mode Dispersion	ps	0.5	
Input/output Isolation	dB	>35	
Optical Power Monitoring	-	Input Power，Output Power	
Optical Fiber	-	SMF-28	
Fiber connectors	-	FC/APC	For power test only
Control mode		ACC/APC	

*note 2 : Gain value is tested separately at different wavelength

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General Parameters		Desktop	Module
Control function		Push button	RS232 serial Communication
Remote Control Port		Optional	DB9 Female
Power Supply		AC100~240V, <150W	12V DC, <60W
Dimensions	**27/30/33/35 dBm**	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)	SM=SMF-28	M= Module B= Desktop