

## High-Power Polarization Maintaining EDFA for C-band

Based on the principle of laser amplification of optical signal in erbium-doped fiber, C-band high-power bioerbium-maintaining fiber amplifier adopts a unique multi-stage optical amplification design and a reliable high-power laser cooling process to achieve high-power bioerbium-maintaining laser output at 1535~1565nm wavelength. It has the advantages of high power, high extinction ratio and low noise, and can be used in optical fiber communication, laser radar and so on.

Peculiarity:

High output power (up to 10 watts)

High gain coefficient

High polarization extinction ratio

Apply:

Optical fiber communication

Optical fiber sensing

Laser radar



Optical index	Unit	Typical Value	Remarks
Wavelength range	nm	1535~1565	Other wavelengths can be customized
Input power	dBm	-6~+10	
Saturation output power	dBm	27/30/33/35/37/40	@0dBm Enter
Output power adjustable range	-	10%~100%	
Noise index	dB	<6.0	@0dBm Enter
Polarization extinction ratio	dB	23(Type), 20(Min)	
Input/output isolation	dB	>35	
Optical power monitoring	-	Input optical power monitoring, output optical power monitoring	
Pigtail type	-	PM1550 maintains bias	
Pigtail connector type	-	FC/APC	Only for power testing
Working mode		Automatic Current Control (ACC)/ Automatic Power Control (APC)	



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Electrical and environmental parameters		Table type	module
Control mode		key	RS232 Serial port communication
Communication interface		optional	DB9 Female
Power supply		100~240V AC,<150W	12V DC, <60W
dimension	27/30/33 dBm	260(W)×320(D)×120(H)mm	125(W)×150(D)×30(H)mm
	35/37/40 dBm	360(W)×350(D)×120(H)mm	139(W)×235(D)×70(H)mm
Operating temperature range		-5~+35°C	
Operating humidity range		0~70%	

Ordering information/model number					
EYDFA	Operating wavelength	Amplifier type	Output power(dBm)	Fiber type	Encapsulation form
	C= C-band	HP-BA = High power BA amplifier	27/30/33/35/37/40	PM= polarization- maintaining fiber	M= module B= table