

Erbium Doped Fiber Amplifier Polarization Maintaining High Power for L-band



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For customized projects please Contact us:

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Erbium-doped PM High-Power for L-band

SIMTRUM's L-Band High-Power Polarization Maintaining EDFA uses efficient polarization-maintaining fiber amplification and advanced heat dissipation to deliver high-power, polarization-maintained output in the 1570-1605nm range. With high power, high extinction ratio, and low noise, it's ideal for optical communication and LIDAR applications.

Features

- High output power
- High gain factor
- Full polarization-preserving optical path

Application

- Fiber optic communication
- Fiber optic sensing
- LiDAR



Specifications

Optical Parameters	Unit	Typical Value	Remarks
Operating Wavelength	nm	1570~1605	Wavelengths customizable
Input Signal Power	dBm	-6 ~ +10	
Saturation Output Power	dBm	27/30/33/35/37/40	@0dBm input
Output Power Adjustable	-	10% ~ 100%	
Noise Figure	dB	<6.0	@0dBm input
Polarization Extinction Ratio	dB	23(Type), 20(Min)	
Polarization Dependent Gain	dB	≤0.5	
Polarization Mode Dispersion	ps	0.5	
Input/output Isolation	dB	>35	
Optical Power Monitoring	-	Input Power, Output Power	
Fiber Type	-	PM1550	
Fiber Connectors		FC/APC	For power test only
Control mode		ACC/APC	

Specifications

General Parameters		Benchtop	Module
Control Function		Keystroke/ RS232 serial communication	RS232 serial communication
Remote Control Port		DB9 Female	DB9 Female
Power Supply		AC100~240V, <150W	DC5V, <60W
Dimensions	Power 27/30 dBm	260(W)×320(D)×120(H)mm	125(W)×150(D)×31.5(H)mm
	Power 33/35/37/40 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/ Product Code					
Series	Wavelength(nm)	Amplifier Type	Output Power (dBm)	Fiber	Packaging
STEYDFA	L = L-band	HP-BA = High Power BA Amplifier	27/30/33/35/37/40	PM = PM1550	M - Module
					B - Desktop