



Erbium Doped Fiber Amplifier High Power Single-Mode for C-Band



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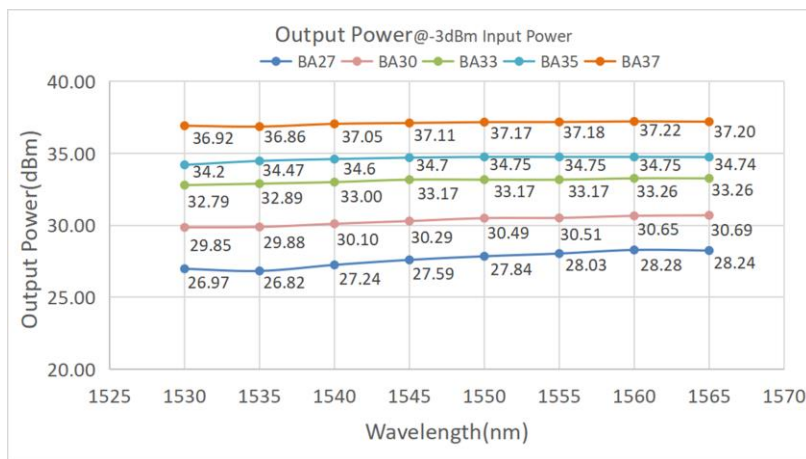
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Erbium-doped High-Power Single-Mode for C-Band

SIMTRUM's High Power Erbium-Ytterbium Doped Fiber Amplifier (STEYDFA-HP) leverages stimulated emission in Erbium-Ytterbium co-doped fiber to deliver high-power laser output within the 1535-1565nm wavelength range. Featuring a uniquely designed optical path and reliable high-power laser heat dissipation, this amplifier offers high power with low noise, making it ideal for fiber communication and LIDAR applications.



Features

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

Application

- Fiber Communication
- Fiber Sensing
- Fiber Laser

Specifications

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
Output Power Adjustable	-	10% ~ 100%	
Noise Figure	dB	<6.0	
Gain Flatness	dB	≤1	at different wavelength
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 connectors	-	SMF-28, 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 27/30/33/35 dBm	260(W)×320(D)×120(H)mm	125(W)×150(D)×31.5(H)mm
	Power 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	C = C-band	HP-BA = High Power BA Amplifier	27/30/33/35/37/40	SM = SMF-28	M - Module
					B - Desktop