

## Erbium Doped Fiber Amplifier In-line for C-Band



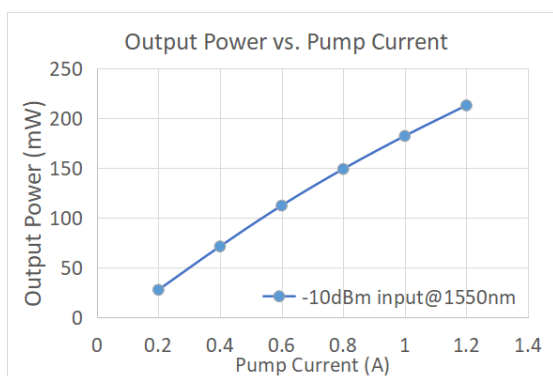
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## Erbium-doped Fiber In-line Amplifier for C-Band (LA Amplifier)

SIMTRUM's C-Band Erbium-Doped Fiber Inline Amplifier (LA Amplifier) is expertly designed for fiber laser and communication systems, facilitating line relay enhancements. It merges the benefits of PA and BA amplifiers, offering high gain for small signals and substantial output power. Ideal for extending relay lengths or compensating for branch losses in optical access networks, it provides high transmit power and low noise performance.



### Features

- High output power
- High gain coefficient
- Low noise

### Application

- Optical fiber communication
- Fiber optic sensing
- Fiber laser

### Specifications

Optical Parameters	Unit	Typical Value	Remarks
Operating Wavelength	nm	1530~1565	C-band
Input Signal Power	dBm	-25 ~ -3	
Saturation Output Power	dBm	15/17/20/23/25/26	@-10dBm input
Small Signal Gain Coefficient	dB	35	@-25dBm input
Noise Figure	dB	5.5	@-10dBm input
Polarization Dependent Gain	dB	≤0.3	
Polarization Mode Dispersion	ps	0.5	
Input/output Isolation	dB	>35	
Optical Power Monitoring	-	Output power	
Optical Fiber	-	SMF-28 SM fiber	
Fiber Connectors	-	FC/APC	
Control Mode		ACC/ APC	

## Specifications

General Parameters	Desktop	Module
Control Function	Keystroke/ RS232 serial communication	RS232 serial communication
Remote Control Port	DB9 Female	DB9 Female
Power Supply	AC100~240V, <30W	DC5V, <15W
Dimensions	260(W)×280(D)×120(H)mm	125(W)×150(D)×20(H)mm
Operation Temperature	-5~+35°C	
Operation Humidity	0~70%	

## Ordering Information/ Product Code

Series	Wavelength(nm)	Amplifier Type	Small Signal Gain (dB)	Fiber	Packaging
STEDFA	C = C-band	LA = Line Amplifier	15/17/20/23/25/26	SM = SMF-28	M - Module
					B - Desktop