

Erbium Doped Fiber Amplifier Pulsed for C-Band



2024 V1

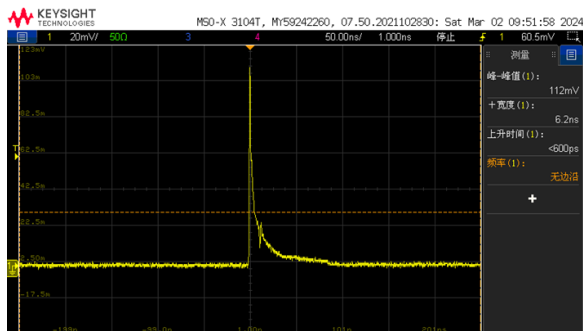
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Erbium-doped Fiber Amplifier Pulsed for C-Band

SIMTRUM's Pulsed Erbium-Doped Fiber Amplifier is a series of fiber amplifiers specially designed for low repetition rate picosecond and nanosecond laser pulses. While outputting high peak power laser pulses, the fiber nonlinear effects are minimized, with high gain and low advantage of noise. Support remote software control and is available in desktop or modular formats.

Pulse laser amplifiers have variable parameters, so standard pricing is unavailable. Pricing is based on signal specifics such as wavelength, signal-to-background ratio, pulse width, repetition frequency, and peak power. For signals with pulse widths over 50ns, we discuss acceptable distortion with the user. Quotes are provided after a detailed evaluation.



Features

- Short Pulse Amplification
- High Peak Power
- Customizable

Application

- Optical fiber communication
- Fiber optic sensing
- Lidar

Specifications

Optical Parameters	Unit	Typical Value		Remarks
Operating Wavelength	nm	1530~1565		
Input Signal Spectrum Width	MHz	≥1		
Pulse Duration	ns	1 ~ 50		
Pulse Repetition	kHz	1 ~ 1000		
Input Peak Power	mW	1 ~ 10		
Output Peak Power	W	1 ~ 1000		Based on pulse width and repetition rate
Noise Figure	dB	5.5		
Polarization Extinction Ratio	dB	-	≥23	
Polarization Dependent Gain	ps	≤0.5	-	
Polarization Mode Dispersion		0.5	-	
Input/output Isolation	dB	>35		
Optical Power Monitoring	-	Output power		
Optical Fiber	-	SMF-28 SM	PM1550	
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	Amplifier Type	Output Pulse Peak Power (W)	Fiber	Packaging
STEDFA	C = C-band	PL = Pulse Amplifier	100/200/500/1000	SM = SMF-28	M - Module
				PM = PM1550	B - Desktop