



Ytterbium-doped Fiber Amplifier STYDFA



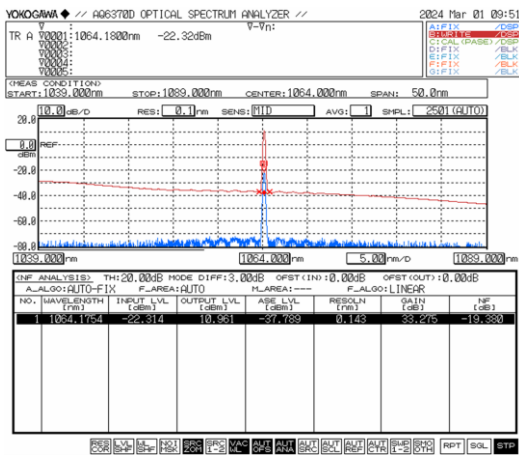
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Ytterbium-doped Fiber Amplifier – STYDFA series

SIMTRUM's Ytterbium-Doped Fiber Amplifier (YDFA) utilizes semiconductor laser pumping to amplify signals in the 1030~1080nm range, offering adjustable output power with high gain and low noise. The desktop YDFA is user-friendly for experimental operations, allowing pump current and output power adjustments via panel buttons. For system integration, a compact modular YDFA is available. Both versions support software control and serial command control for enhanced flexibility.



Features

- Wide wavelength range
- High output power
- Low noise

Application

- Nonlinear optics
- Fiber optic sensing
- Fiber laser

Specifications

Optical Index	Unit	Typical Value	Remarks
Wavelength Range	nm	1030~1080	Customizable
Input Power	dBm	0~10	Customizable
Saturated Output Power	dBm	17/20/23/25/26/27/30/33/37/40	@0dBm input
Noise Figure	dB	5	
Polarization Mode Dispersion	ps	<0.3	
Polarization Mode Extinction Ratio	dB	≥20	
Input/Output Return Loss	dB	>35	
Optical Power Monitoring	-	Output Power Monitoring	
Pump Type	-	Hi-1060 (Single-mode), PM980 (Polarization-maintaining)	
Fiber Type and Connector	-	FC/APC	
Operating Mode	-	Automatic Current Control (ACC)/ Automatic Power Control (APC)	

Specifications

General Parameters		Desktop Version	Modular Version
Control Mode		Button	RS232 Serial Communication
Communication Port		Optional	DB9 Female
Power Supply		100~240V AC, <30W	5V DC, <15W
Dimensions	17~20dBm	260(W)×280(D)×120(H)mm	125(W)×150(D)×20(H)mm
	23~26dBm	260(W)×280(D)×120(H)mm	139(W)×206(D)×27(H)mm
	27~37dBm	260(W)×320(D)×120(H)mm	139(W)×235(D)×37(H)mm
	40dBm	360(W)×350(D)×120(H)mm	139(W)×235(D)×70(H)mm
Operating Temperature		-5 ~ +35°C	
Operating Humidity		0~70%	

Ordering Information/ Product Code			
Series	Saturated Output Power(dBm)	Fiber	Packaging
STYDFA	17/20/23/25/26/27/30/33/37/40	SM = HI-1060	M - Module
		PM = PM1550	B - Desktop