

Erbium Doped Fiber Amplifier Gain Flattened for C-Band

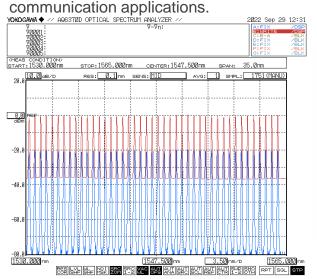


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Erbium-doped Fiber Gain Flattened for C-Band

The SIMTRUM EDFA Gain Flattened Amplifier is meticulously designed for fiber optic communication systems, ensuring simultaneous amplification of multiple wavelength signals within the C-band. This amplifier stands out by maintaining consistent gain across all wavelengths with a gain flatness of ≤1.5 dB. Key features include a broad spectral range, multi-wavelength capability, gain flatness, high gain, and low noise, making it an optimal choice for advanced optical





C-Band multi-wavelength signal amplification spectrum

Features

- Gain flattening
- High Gain

Application

- Optical fiber communication
- Fiber optic sensing

Specifications

Optical Parameters	Unit	Typical Value		Remarks	
Model	-	STEDFA-C-PA-GF	STEDFA-C-BA-GF	STEDFA-C-LA-GF	
Operating Wavelength	nm	1530~1565			
Input Signal Power	dBm	-45 ~ -25	-12 ~ +3	-25 ~ +3	Customizable
Saturation Output Power	dBm	14	17/20/23	17/20/23	
Power Gain	dB	25	25	25	
Noise Figure	dB	5	5	5.5	
Gain Flatness	dB	≤1.5		when gain coefficient is at typical value	
Polarization Dependent Gain	dB	≤0.3		,	
Polarization Mode Dispersion	ps	0.5			
Input/output Isolation	dB	>35			
Optical Power Monitoring	-	Input and Output optical power monitoring			
Optical Fiber	-	SMF-28/PM1550			
Fiber Connectors	-	FC/APC			
Control Mode	-	ACC ACC/ APC/AGC			

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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, <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	Output Power	Fiber	Packaging			
STEDFA C = C-band	PA-GF = Gain Flattened Pre-Amplifier	Gain	SM = SMF-28	M - Module				
		25 dB	SIVI = SIVIF-28					
	DA OD Ocia Flattana I Danatan Assalitina	Saturated Power	PM = PM1550	D. Dooldon				
		BA-GP = Gain Flattened Booster Amplifier	17/20/23 dBm	FIVI = PIVI 1550	B - Desktop			

