

## Single Channel Erbium-doped Fiber Pre-Amplifier for C-band

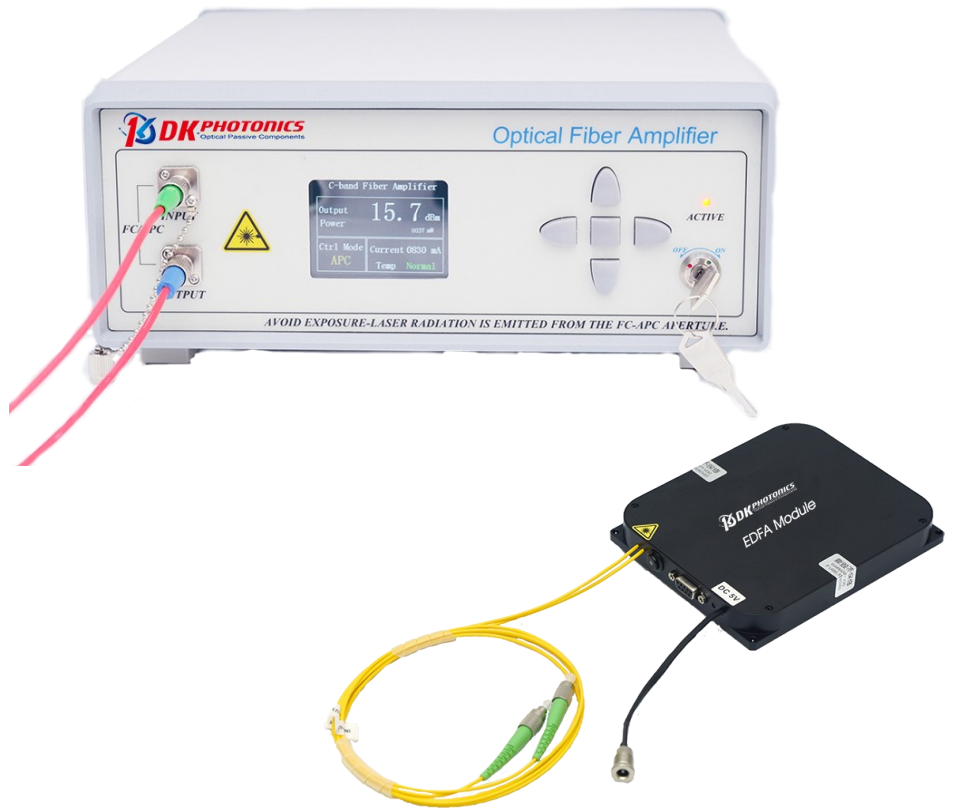
The erbium-doped fiber small signal amplifier (PA, Pre-Amplifier) is dedicated to the amplification of weak optical signals in the range of -45dBm ~ -25 dBm. The typical gain of small signal is as high as 35 or 45 dB, and it has a low noise figure. Used before the photodetector to improve its ability to detect weak light signals.

### Key Features

- High Gain
- High Dynamic Range

### Applications

- Fiber Communications
- Fiber Lasers
- Fiber Sensors



## For more Info

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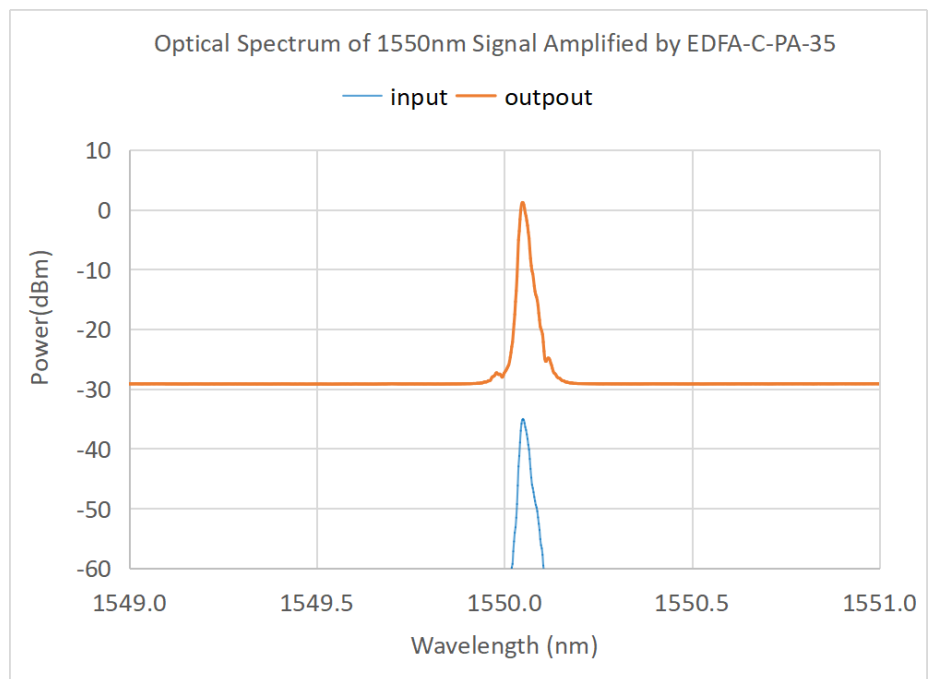
<https://www.dkphotonics.com>

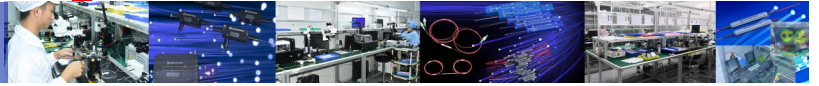
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## Performance Specifications Single Channel Erbium-doped Fiber Pre-Amplifier for C-band

Optical Parameter	Unit	Typical Values		Remark
Model	-	EDFA-PA-35	EDFA-PA-45	
Wavelength Range	nm	1530~1565nm		C-band
Input Power	dBm	-35~-25	-45~-25	
Small signal gain factor	dB	35	-	@-35dBm input
Small signal gain factor	dB	-	45	@-45dBm input
Noise Figure	dB	4.5		@-35dBm input
Gain Flatness	dB	3		
Polarization Dependent Gain	dB	<0.3		
Polarization Mode Dispersion	ps	0.5		
Input/output Isolation	dB	>35		
Fiber Type	-	SMF-28		1.0m length
Optical Connector	-	FC/APC		
Control Mode	-	ACC		

Electrical and environmental parameters	Desktop	Module
Control Mode	Button	RS232
Communication Interface	* Optional	DB9 Female
Power Supply	100~240V AC, <30W	5V DC, <15W
Dimensions	260(W)×280(D)×120(H)mm	125(W)×150(D)×20(H)mm
Operation Temperature Range	-5~+55°C	
Operation Humidity Range	0~70%	

## Order information P/N: ①-②-③-④-⑤-⑥

When you inquire, please provide the correct P/N number according to our ordering information, and attach the appropriate description would be better.

①	②	③	④	⑤	⑥
EDFA	Operation Wavelength	Amplifier type	Gain(dB)	Fiber Type	Package Type
	C: C-band	PA: Small signal amplifier	35:35dB@-35dBm 45:45dB@-45dBm	SM: SMF-28e	M: Module B: Desktop

## Ordering Information for Custom Parts

If you need to customize other specifications, please provide detailed description for your requirement.