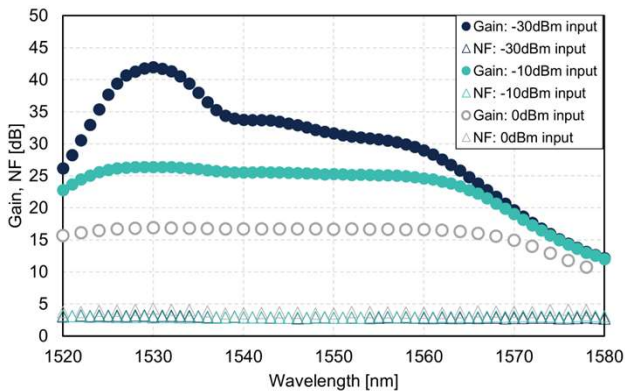


# AMP-FL8013-CB-16

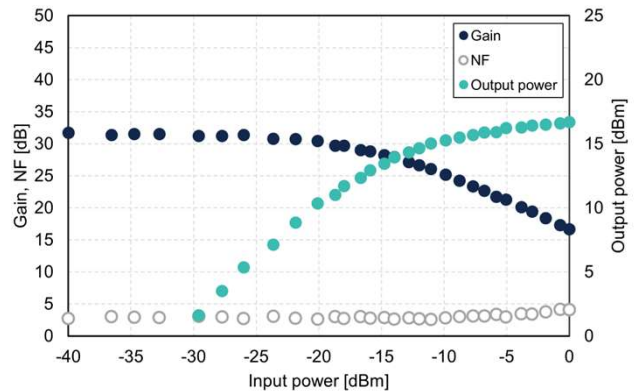
- C-band Optical Fiber Amplifier -



## Typical Performance



Gain/noise figure vs. wavelength



Gain/NF/output power vs. input power @1550nm

## Features

- ❑ Ultra low noise figure model ( $\leq 5\text{dB}$ )
  - Primarily used as a preamplifier
- ❑ Flat gain
- ❑ High stability
- ❑ High reliability

## Applications

- ❑ WDM signal amplification
- ❑ Optical component tests
- ❑ Optical telecommunications
- ❑ Sensing
- ❑ R&D

Distribution in the UK & Ireland



**Characterisation,  
Measurement &  
Analysis**

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**Product Number: AMP-FL8013-CB-16**

**TECHNICAL SPECIFICATIONS**

Optical Specifications	unit	min.	typ.	max.	note
Signal Wavelength	nm	1530	1550	1560	-
Signal Input Power	dBm	-40	-	10	Signal input power monitor Opt.092
Signal Output Level	dBm	16	-	-	Pin: 0dBm @λ typ.
Signal Gain	dBm	30	33	-	Pin: -30dBm @λ typ.
Noise Figure	dB	-	4	5	Pin: -30dBm @λ typ.
Working Axis	-	-	-	-	-
Polarization Extinction Ratio	dB	-	-	-	-
Input/Output Isolation	dB	40/40	-	-	Internal isolator included
Laser Class	-	3B	-	-	-
Standard Optical Connector	-	FC/PC	-	-	-
Input/Output Fiber	-	Corning SMF28e	-	-	-

Functional Specifications		note
Operating Mode	- Auto Current Control - Auto Light Control	-
Monitoring Parameters	- Input signal power - Output signal power - Back-reflection from outout port - Pump LD current - Pump LD temperature - Case temperature	Opt.092 - Opt.093 - - -
Remote Control	- RS-232C - IEEE488.1(GP-IB)	- -
Safety Function	- Key lock switch - Remote interlock - Pump shutdown with input alarm - Power reduction with back reflection alarm	- - Opt.091 Opt.093

Electric Specifications	unit	min.	typ.	max.	note
Power Consumption	W	-	-	30	-
Insulation Resistance	MΩm	10	-	-	DC500kV, b/w PS-Case
Withstand Voltage	kV	1.5	-	-	AC, 2seconds, b/w PS-Case
Power-Supply Voltage	V	90	-	240	AC
Fluctuation Tolerance	%	-	-	10	-
Power-Supply Frequency	Hz	50	-	60	-
Fluctuation Tolerance	%	-	-	10	-

Mechanical Specifications	unit	min.	typ.	max.	info.
Weight	kg	-	-	5	-
Dimension	mm	-	88 x 260 x 350	-	HxWxD, without protrusions

Environmental Specifications	unit	min.	typ.	max.	info.
Operating Temperature	° C	0	-	40	-
Storage Temperature	° C	-10	-	60	-
Operating Humidity	%rh	0	-	90	Non-condensing
Operating Condition	-	Indoor Use	-	-	-

**Other/Special Specifications**  
None in particular

Option	
opt.011	N/A
opt.012	FC/Angled-PC
opt.013	SC/PC
opt.014	SC/Angled-PC
opt.072	N/A
opt.091	Input monitor, alarm & Interlock (* Noise Figure +0.5dB)
opt.093	Back reflection monitor, alarm & Interlock
opt.121	Rackmount brackets (Size: 88(H)×430(W)×350(D) mm)
opt.123	N/A

Standard Accessory	
Power cable	: 1
Power key	: 2
Manuals	: PDF
Specification sheet	: PDF
Inspection record	: Hard copy

※ All functions, specifications and appearance are subject to change without notice.



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