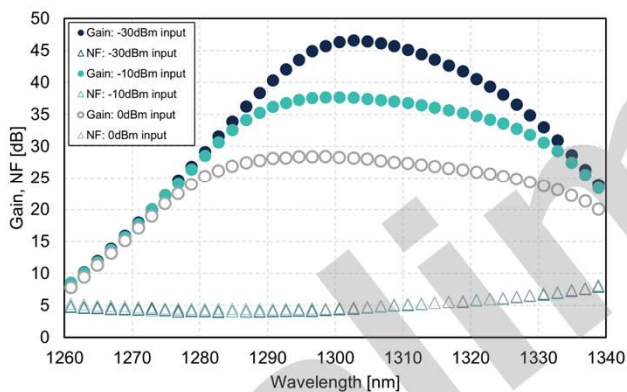


AMP-FL8612-OB-27

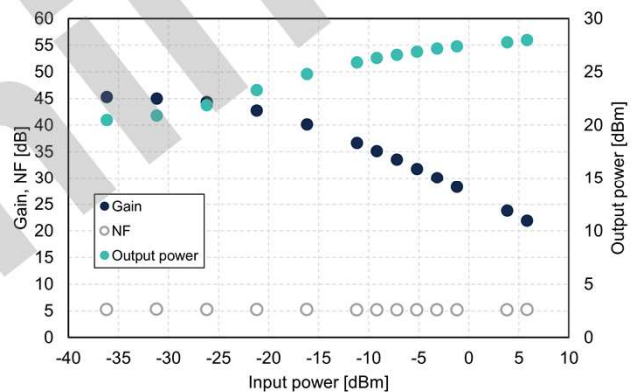
- O-band Praseodymium-Doped Fiber Amplifier -



Typical Performance



Gain/noise figure vs. wavelength



Gain/NF/output power vs. input power @1310nm

Features

- ❑ The highest output power model in O-band optical fiber amplifiers (≥ 27 dBm)
- ❑ Wide wavelength range
- ❑ Low noise figure (≤ 7 dB)
- ❑ High stability
- ❑ High reliability

Applications

- ❑ High speed ethernet (100G, 400G, 800G and beyond)
- ❑ Transceiver testing (e.g., receiver stress test)
- ❑ Optical telecommunications
- ❑ Sensing
- ❑ R&D

Product Number: AMP-FL8612-OB-27

Optical Specifications	unit	min.	typ.	max.	note
Signal Wavelength	nm	1280	1310	1320	-
Signal Input Power	dBm	-40	-	10	Signal input power monitor
Signal Output Level	dBm	27	-	-	Pin: 0dBm @ λ typ.
Signal Gain	dBm	40	45	-	Pin:-30dBm @ λ typ.
Noise Figure	dB	-	6	7	Pin:-30dBm @ λ typ.
Working Axis	-	-	-	-	-
Polarization Extinction Ratio	dB	-	-	-	-
Input/Output Isolation	dB	40/40	-	-	Internal isolator included
Laser Class	-	4	-	-	-
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.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.093

Electric Specifications	unit	min.	typ.	max.	note
Power Consumption	W	-	-	50	-
Insulation Resistance	MOhm	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	-	-	10	-
Dimension	mm	-	88 x 430 x 450	-	HxWxD, without protrusions, 2U compatible

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	N/A
opt.093	Back reflection monitor, alarm & Interlock
opt.121	N/A
opt.123	Rackmount brackets (Size: 88(H)×430(W)×450(D) mm)

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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Revision Information

Unique : 1.1.1

Common : 1.2.1

Format : 1.3.2

