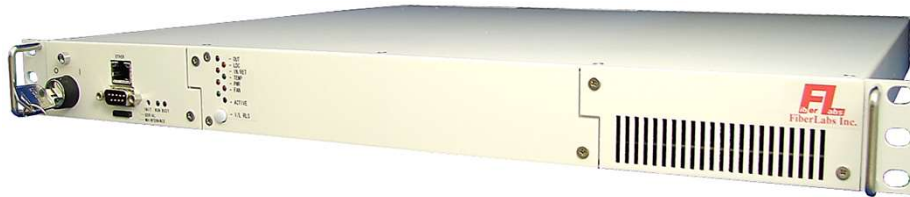


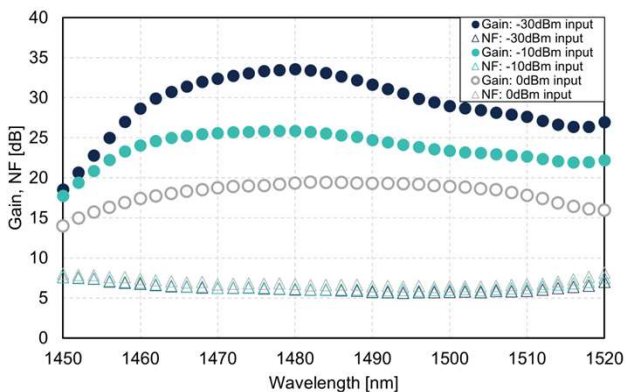


# AMP-FL5221-SB-19

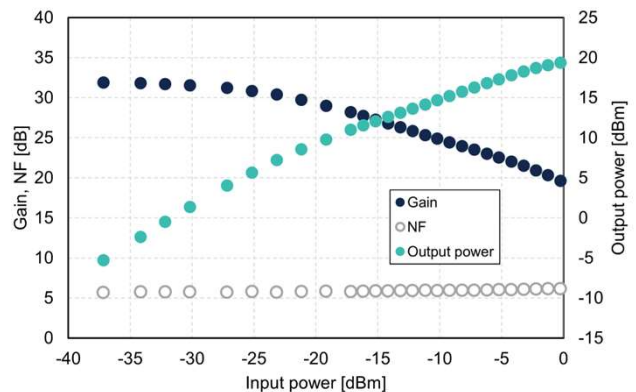
- S-band Optical Fiber Amplifier -



## Typical Performance



Gain/noise figure vs. wavelength



Gain/NF/output power vs. input power @1490nm

## Features

- ❑ Designed for network application
- ❑ Based on our proprietary fluoride fiber TDFA technology
- ❑ Wideband wavelength range covering from 1460 to 1520 nm
- ❑ High power ( $\geq 19\text{dBm}$ )
- ❑ Low noise figure ( $\leq 7\text{dB}$ )
- ❑ High stability
- ❑ High reliability

## Applications

- ❑ Ultra-wideband DWDM transmission (used for a number of hero experiments)
- ❑ Access/metro networks
- ❑ Data centers
- ❑ Network monitoring (e.g. packet inspection)
- ❑ R&D

## Product Number: AMP-FL5221-SB-19

Optical Specifications	unit	min.	typ.	max.	note
Signal Wavelength	nm	1470	1490	1520	-
Signal Input Power	dBm	-40	-	10	Signal input power monitor
Signal Output Level	dBm	19	-	-	Pin: 0dBm @λ typ.
Signal Gain	dBm	-	27	-	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	-	3B	-	-	-
Standard Optical Connector	-	SC/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 Power0supply-unit voltage Fan rotation	- - Opt.093 - - - - -
Remote Control	Relay terminal for alarm RS232C (Non-Interactive command-line control)	- -
Safety Function	Pump shutdown with input alarm Power reduction with back reflection alarm	- Opt.093

Electric Specifications	unit	min.	typ.	max.	note
Power Consumption	W	-	30	40	-
Insulation Resistance	MΩhm	10	-	-	DC500kV, b/w PS-Case
Withstand Voltage	kV	1.5	-	-	AC, 2seconds, b/w PS-Case
Power-Supply Voltage	V	90	-	240	AC, Duplicated & Hot-swap
Fluctuation Tolerance	%	-	-	10	-
Power-Supply Frequency	Hz	50	-	60	-
Fluctuation Tolerance	%	-	-	10	-

Mechanical Specifications	unit	min.	typ.	max.	info.
Weight	kg	-	-	6	-
Dimension	mm	-	43 x 440 x 403	-	HxWxD, without protrusions, 1U compatible

Environmental Specifications	unit	min.	typ.	max.	info.
Operating Temperature	° C	0	-	40	-
Storage Temperature	° C	-10	-	60	-
Operating Humidity	%rh	5	-	80	Non-condensing
Operating Condition	-	Indoor Use	-	-	-

Other/Special Specifications
None in particular

Option	
opt.011	FC/PC
opt.012	FC/Angled-PC
opt.014	SC/Angled-PC
opt.019	Other Customized Connector
opt.023	DC-48V Hot Swap Power Supply
opt.029	Other Customized Power Supply
opt.092	Ethernet Interface 100BASE-TX / 10BASE-T / Auto-MDIX / RS232C (Interactive shell) / Telnet / Http (Web I/F) / SSH (password-auth) / SNMP (v2c) / Syslog / NTP
opt.093	Back reflection monitor, alarm & Interlock
opt.151	Front Control Panel & Display

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 : 2.1.1

Common : 2.1.1

Format : 2.1.1

