

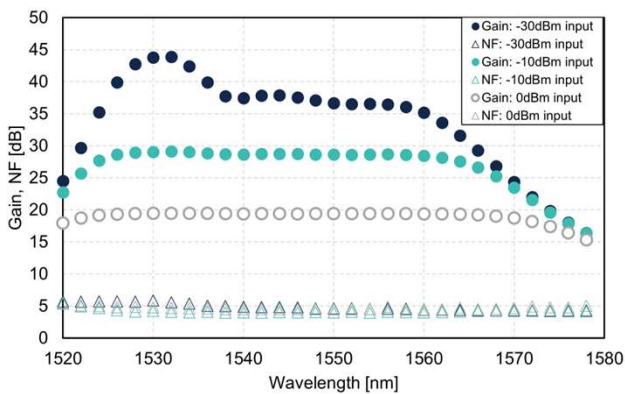


AMP-FL8013-CB-19

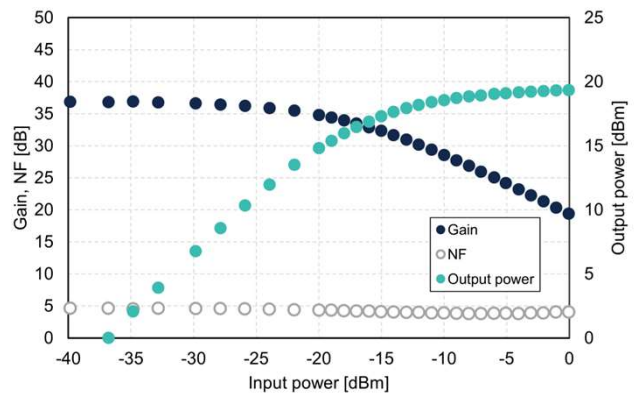
- C-band Optical Fiber Amplifier -



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

Product Number: AMP-FL8013-CB-19

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 | 19 | - | - | Pin: 0dBm @λ typ. |
| Signal Gain | dBm | 35 | 37 | - | 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.



FiberLabs Inc.

Phone: +81-49-278-7829
 info@fiberlabs.com
 https://www.fiberlabs.com
 [Head Office] 2-1-15 Ohara, Fujimino, Saitama, 356-8502, Japan
 [Kawagoe Office] 4F 27-9 Wakitamachi, Kawagoe, Saitama, 350-1122, Japan

Revision Information

Unique : 1.1.1
 Common : 1.1.1
 Format : 1.3.2

