

**AMP-FL501x-CB**  
**C-band Optical Amplifier**  
**Specifications**



2-1-15, Ohara, Fujimino, Saitama, 356-8502, Japan

Tel: +81-49-278-7829, Fax: +81-49-263-9328

E-mail: [info@fiberlabs.co.jp](mailto:info@fiberlabs.co.jp)

URL: <https://www.fiberlabs-inc.com>

## • Product Specifications

Parameter	Specification					
Applications	Booster, In-line and Pre amplifier					
Product Number	AMP-FL5011-CB			AMP-FL5013-CB		
	-22	-19	-16	-19	-16	-13
Signal Wavelength	1530 ~ 1560 nm					
Maximum Output Power *1	≥ +22 dBm	≥ +19 dBm	≥ +16 dBm	≥ +19 dBm	≥ +16 dBm	≥ +13 dBm
Gain *2	≥ 35 dB		≥ 30 dB	≥ 35 dB	≥ 30 dB	≥ 25 dB
Noise Figure *2	≤ 6 dB			≤ 5 dB		
Input / Output Isolation	≥ 40 dB (Including input / output isolator)					
Input / Output Fibers / Connectors	SMF (Corning SMF28e) / SC/PC standard					
Laser Class / Maximum Output Power	Class 3B		Class 3R	Class 3B	Class 3R	
	< 200 mW		< 50 mW	< 200 mW	< 50 mW	
Power Consumption (typ.)	< 40W (30W)	< 20W (15W)				
Weight	< 6 kg					

\*1: Input signal : 0dBm@1550nm

\*2: Input signal : -30dBm@1550nm

## • Options

No.	Description	No.	Description
011	FC/PC Connector	092	Ethernet Interface 100BASE-TX/10BASE-T Auto-MDIX RS232C (Interactive shell) / Telnet / Http (Web I/F) / SSH (password-auth) / SNMP (v2c) / Syslog / NTP
012	FC/Angled-PC Connector		
014	SC/Angled-PC Connector		
019	Other Customized Connector	093	Return Loss of Output Port Monitor, Alarm & Interlock *1
023	DC-48V Hot Swap Power Supply		
029	Other Customized Power Supply	151	Front Control Panel & Display

\*1: Output signal level is limited to laser class 1 or less when the reflection level at the output port rises in excess.

### · Common Standard Specifications

Parameter	Specification
<b>Amplifier Control Mode</b>	ACC (Auto Current Control) / ALC (Auto Light Control)
<b>Monitor &amp; Alarm Items</b>	Input signal level / Output signal level / Pump-LD current / Pump-LD temperature / Case temperature / Power-supply-unit voltage*1 / Fan rotation*1
<b>Function for Safety</b>	Interlock with input level alarm *2
<b>Remote Interface</b>	Relay terminal for alarm / RS232C (Non-Interactive command-line control)
<b>Power Supply</b>	AC100 ~ 240 V (50/60 Hz) : Duplicated & Hot-swap
<b>Dimension</b>	1U: 43(H) x 440(W) x 403(D) mm (*not including protrusions)
<b>Temperature</b>	Operation : 0 ~ 40 °C / Storage : -10 ~ 60 °C
<b>Humidity</b>	5 ~ 80 % rh(non-condensing)
<b>Other Environmental Conditions</b>	Indoor use / Overvoltage category: II / Altitude: < 2000m / Pollution degree: 2 / Protection rating: IPx0
<b>Safety Standards</b>	IEC 60825-1 (JIS C 6802) / CE marking (EN 61010-1 / EN 61326-1)

\*1: Alarm only.

\*2: Pump-LD output halts when the input level drops. An interlock release button is provided.

### · Spare Part List \*sold separately

Parts Number	Description
<b>PSU-AC-001</b>	AC100 ~ 240 V (50/60 Hz) hot swap power supply unit with cooling fan
<b>PSU-DC48-001</b>	DC -48V (-40 ~ -76V) hot swap power supply unit with cooling fan
<b>FAN-40-001</b>	Cooling fan

### · Included Items

Item	Pcs	Item	Pcs
This instrument	1	Main power key	2
AC power cord *	1 or 2	Final test inspection records	1
Specifications (by these presents)	1	User's manual (Booklet or CD-ROM)	1 set

\* Only for AC power supply type