

AMP-FL52x1-SB

S-band Optical Amplifier

Specifications



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• Product Specifications

Parameter	Specification					
Applications	Booster, In-line and Pre amplifier					
Product Number	AMP-FL5201-SB			AMP-FL5221-SB		
	-19	-16	-13	-19-W	-19	-16
Signal Wavelength	1460 ~ 1500 nm			1470 ~ 1520 nm		
Maximum Output Power *1	≥ +19 dBm	≥ +16 dBm	≥ +13 dBm	≥ +19 dBm	≥ +19 dBm	≥ +16 dBm
Gain *2	19 dB typ.	16 dB typ.	13 dB typ.	24 dB typ.	30 dB typ.	25 dB typ.
Gain Flatness *3	-			≤ 3 dB	-	
Noise Figure *2	≤ 7 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)		< 40W (30W)		
Weight	< 6 kg					

*1: Input signal : 0dBm@1490nm

*2: Input signal : -30dBm@1490nm

*3: Gain difference of 1471, 1511nm amplified signals at 1471, 1491, 1511nm signals 0dBm/ch input

• 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
Amplifier Control Mode	ACC (Auto Current Control) / ALC (Auto Light Control)
Monitor & Alarm Items	Input signal level / Output signal level / Pump-LD current / Pump-LD temperature / Case temperature / Power-supply-unit voltage*1 / Fan rotation*1
Function for Safety	Interlock with input level alarm *2
Remote Interface	Relay terminal for alarm / RS232C (Non-Interactive command-line control)
Power Supply	AC100 ~ 240 V (50/60 Hz) : Duplicated & Hot-swap
Dimension	1U: 43(H) x 440(W) x 403(D) mm (*not including protrusions)
Temperature	Operation : 0 ~ 40 °C / Storage : -10 ~ 60 °C
Humidity	5 ~ 80 % rh(non-condensing)
Other Environmental Conditions	Indoor use / Overvoltage category: II / Altitude: < 2000m / Pollution degree: 2 / Protection rating: IPx0
Safety Standards	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
PSU-AC-001	AC100 ~ 240 V (50/60 Hz) hot swap power supply unit with cooling fan
PSU-DC48-001	DC -48V (-40 ~ -76V) hot swap power supply unit with cooling fan
FAN-40-001	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