

1.4μm FBG LD MODULE

AF4B222CUxxxF / 226CUxxxF / 230CUxxxF

Optical fiber output power 220, 260 and 300mW

The AF4B2xxxU SERIES is designed for Raman amplifier. The wavelength is stabilized with FBG. The laser is installed in a new 14-pin butterfly package with monitor photodiode (PD) and thermo-electric cooler (TEC).

FEATURES

Optical output :

Range of Wavelength : 1420nm < 1500nm

AF4B222CUxxxF : 220mW (I_F 800mA)

AF4B226CUxxxF : 260mW (I_F 950mA)

AF4B230CUxxxF : 300mW (I_F 1100mA)

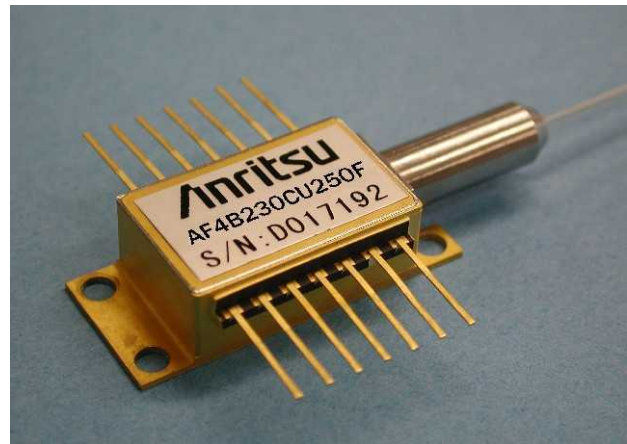
eg. xxx = 755 = 1475.5nm
(0.5nm spacing is available)

Fiber

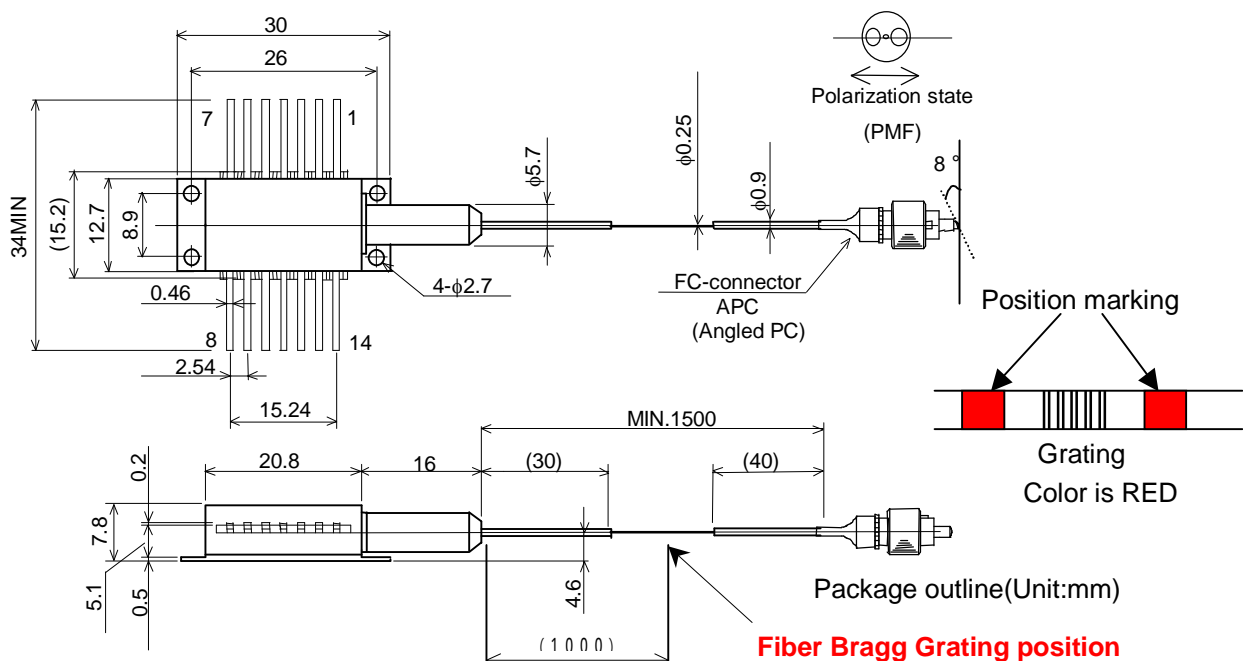
· PMF output (UV coating fiber:φ0.25mm)

14pin butterfly package

Internal monitor PD and TEC



DIMENSIONS

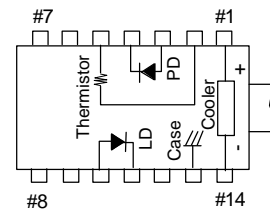


ABSOLUTE MAXIMUM RATINGS (T_{LD}=25°C)

Item	Symbol	Rating	Unit
LD Forward Current	I _F	1500	mA
LD Reverse Voltage	V _R	2	V
PD Forward Current	I _{FD}	10	mA
PD Reverse Voltage	V _{RD}	20	V
Operating Case temperature	T _C	-20 to +70	
Storage Temperature	T _{stg}	-40 to +85	
Cooler Current	I _C	5.8	A

* Excess over the absolute maximum ratings may lead to damage.

TOP VIEW



Pin Configuration

No	FUNCTION	No	FUNCTION
1	Cooler anode	8	NC
2	Thermistor	9	NC
3	PD anode	10	LD anode
4	PD cathode	11	LD cathode
5	thermistor	12	NC
6	NC	13	Case
7	NC	14	Cooler cathode

OPTICAL AND ELECTRICAL CHARACTERISTICS (T_{LD}=25°C, T_C=25°C)

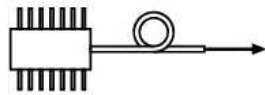
Item	Symbol	Test condition		AF4B222CUxxxF	AF4B226CUxxxF	AF4B230CUxxxF	Unit
Output power	P _f	-	Min.	220	260	300	mW
Forward Voltage	V _F	At Output Power	Max.	2			V
Threshold Current	I _{th}	-	Typ.	70			mA
			Max.	150			
Forward Current (BOL)	I _F	At Output Power	Max.	800	950	1100	mA
Center Wavelength	c	At Output Power RMS (-20dB)	Min.	-1			nm
			Typ.				
			Max.	+1			
Spectral width		At Output Power -10dB	Max.	3.5			nm
Monitor Current	I _m	At Output Power	Min.	100			μA
			Typ.	-			
			Max.	2000			
PD Dark Current	I _d	V _{RD} =5V	Max.	0.1			μA
Tracking Error	P _f	I _m =const, T _C =-20 ~ 70	Max.	0.5			dB
Cooler Voltage	V _C	I _F =*EOL, T _C =70	Typ.	2.2	2.3	2.5	V
			Max.	2.6	2.7	2.9	
Cooler Current	I _C	I _F =*EOL, T _C =70	Typ.	2.0	2.1	2.3	A
			Max.	2.4	2.5	2.7	
Thermistor Resistance	R _{th}	T _{LD} =25	Min.	9.5			K
			Typ.	10			
			Max.	10.5			
Extinction Ratio	Re	At Output Power	Min.	17			dB

*EOL = BOL × 1.2

Note :

Anritsu Corporation reserves the right to change the design or specification of the product at any time without notice.

SEMICONDUCTOR LASER



AVOID EXPOSURE
Invisible laser radiation is emitted from this aperture



INVISIBLE LASER RADIATION
AVOID DIRECT EXPOSURE TO BEAM

OUTPUT POWER 500mW
WAVELENGTH 1.40 to 1.50 μm
CLASS IIIb LASER PRODUCT

Caution - use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
This Product Complies with 21 CFR 1040.10 and 1040.11
Manufactured Anritsu Corp. 5-1-1 Onna, Atsugi-shi, Kanagawa, Japan

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