

1.4μm FBG LD MODULE

AF4B236FUxxxF

Optical fiber output power 360mW

The AF4B236FUxxxF is designed for Raman amplifier. The wavelength is stabilized with FBG. The laser is installed in a 14-pin butterfly package with monitor photodiode (PD) and thermo-electric cooler (TEC).

■ FEATURES

Optical output :

Range of Wavelength : 1420nm $\lambda < 1500\text{nm}$

AF4B236FUxxxF : 360mW (I_F 1400mA)

eg. xxx = 520 $\lambda = 1452.0\text{nm}$

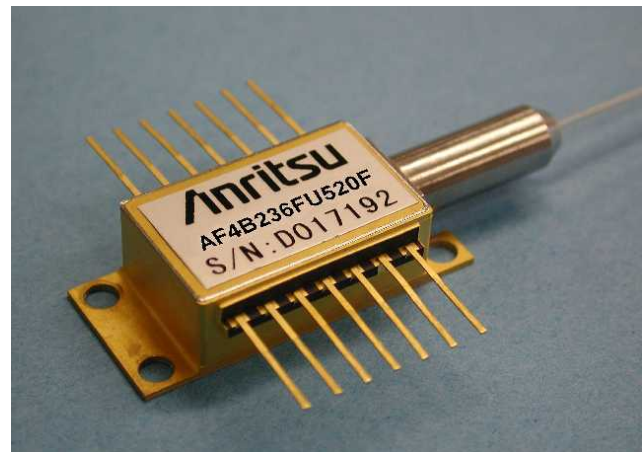
(0.5nm spacing is available)

Fiber

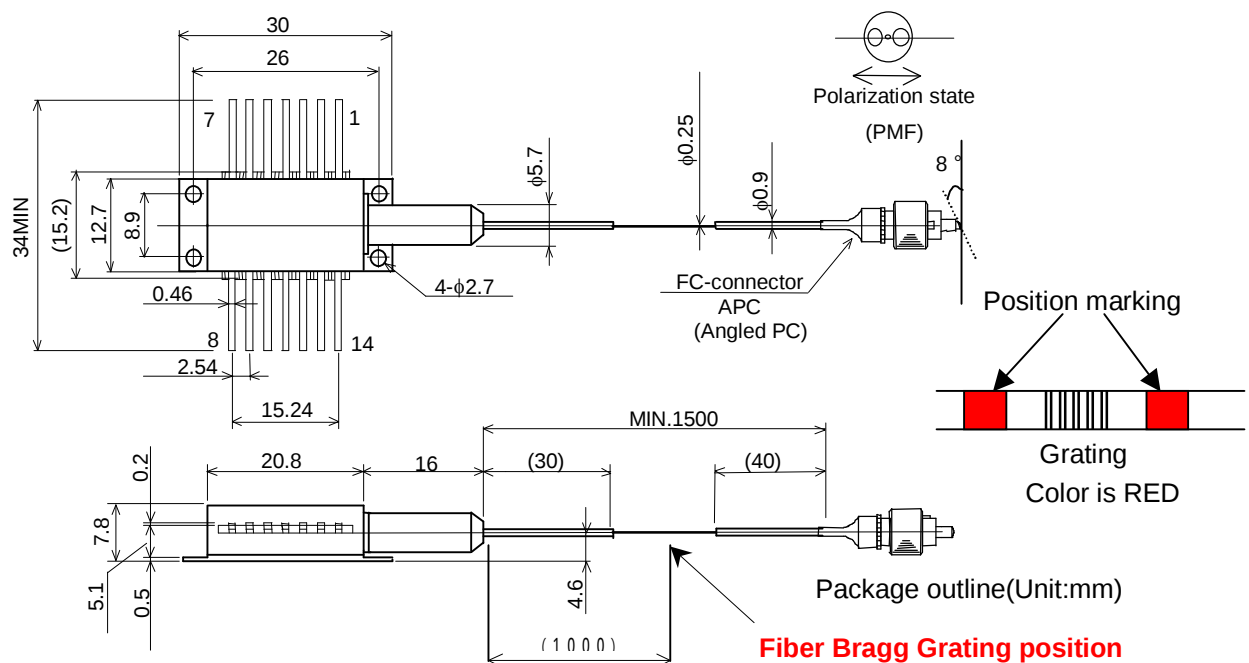
· PMF output (UV coating fiber: $\phi 0.25\text{mm}$)

14pin butterfly package

Internal monitor PD and TEC



■ DIMENSIONS

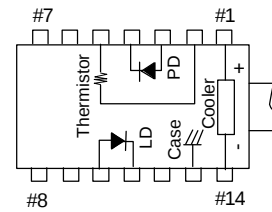


■ ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Rating	Unit
LD Forward Current	I _F	1700	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, P_f range=40mW to P_{max}, unless noted otherwise)

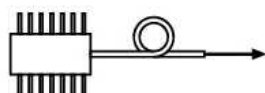
Item	Symbol	Test condition		AF4B236FUxxxF	Unit
Output power	P _f	-	Min.	360	mW
Forward Voltage	V _F	At Output Power	Max.	2	V
Threshold Current	I _{th}	-	Typ.	70	mA
			Max.	180	
Forward Current (BOL)	I _F	At Output Power	Max.	1400	mA
Center Wavelength	λ _c	At Output Power RMS (-20dB)	Min.	λ -1	nm
			Typ.	λ	
			Max.	λ +1	
Spectral width	λ	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.	-	V
			Max.	3.1	
Cooler Current	I _C	I _F =*EOL, T _C =70	Typ.	-	A
			Max.	3	
Thermistor Resistance	R _{th}	T _{LD} =25	Min.	9.5	KΩ
			Typ.	10	
			Max.	10.5	
Extinction Ratio	X _p	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 μ m
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

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