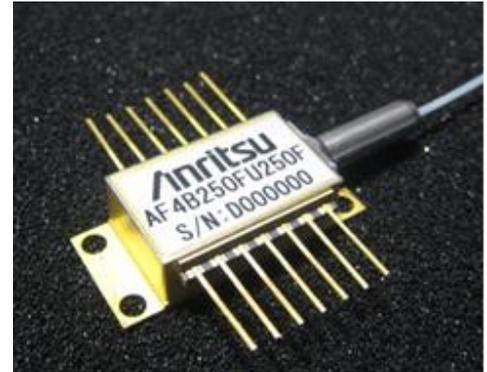


1.4 μ m FBG LD MODULE *AF4B2 SERIES type GB/GC*

The AF4B2 SERIES type GB/GC are 1.4 μ m band FBG-LD module developed for the exciting of Raman amplifier.

FEATURES

- Optical output power : type GB; 310 to 400mW
type GC; 410 to 500mW
- Wavelength range : type GB; $\lambda_T=1420$ to 1499nm
type GC; $\lambda_T=1420$ to 1485nm
- Polarization maintaining fiber (PMF: $\Phi 0.25$ mm UV-coated)
- 14pin-Butterfly package, Monitor-PD,
Built-in TEC (Thermo electric cooler)



APPLICATION

- Raman amplifier

ABSOLUTE MAXIMUM RATING

Item	Symbol	Rating	Unit
LD Forward current	I_F	2200	mA
LD Reverse voltage	V_R	2	V
PD Forward current	I_{FD}	10	μ A
PD Reverse voltage	V_{RD}	20	V
Operation case temperature	T_C	-20 ~ +70	$^{\circ}$ C
Storage temperature	$T_{stg.}$	-40 ~ +85	$^{\circ}$ C
Cooler current	I_C	5.8	A

* Exceeding the absolute maximum ratings may cause a failure.

OPTICAL AND ELECTRICAL CHARACTERISTICS ($T_{LD}=25^{\circ}\text{C}$, $T_C=25^{\circ}\text{C}$)

Item	Symbol	Test condition	Min.	Typ.	Max.	Unit
Threshold current	I_{th}				180	mA
Center wavelength	λ_C	at rating output power	$\lambda_T - 1.0$	λ_T	$\lambda_T + 1.0$	nm
Spectrum width	$\Delta\lambda$	at rating output power, RMS (-20dB)			3.5	nm
Monitor current	I_m	at rating output power, $V_{RD}=5\text{V}$	100		2000	μA
PD dark current	I_d	$V_{RD}=5\text{V}$			0.1	μA
Tracking error	ΔP_f	$I_m=\text{const.},$ $T_C = -5 \text{ to } 75^{\circ}\text{C}$	-0.5		0.5	dB
Thermistor resistance	R_{th}	$T_{LD}=35^{\circ}\text{C},$ $B=3900\pm 100\text{K}$	9.5	10	10.5	$\text{k}\Omega$
Polarization extinction ration	X_p	at rating output power	17			dB

SPECIFICATION OF PIGTAIL FIBER

Item	Min.	Typ.	Max.	Unit
Cut-off wavelength	1300		1400	nm
Mode field diameter @1550nm	10.0	10.5	11.0	μm
Clad diameter	124	125	126	μm
UV coating diameter	230	245	260	μm
FBG recoating part diameter			350	μm
FBG recoating part length			50	mm
Temperature characteristic of FBG wavelength		0.01	0.02	nm/ $^{\circ}\text{C}$
Bending radius	30			mm

ORDERING INFORMATION

Model number : A F 4 B 2 F U 0 F
(Reference)

◆Center wavelength

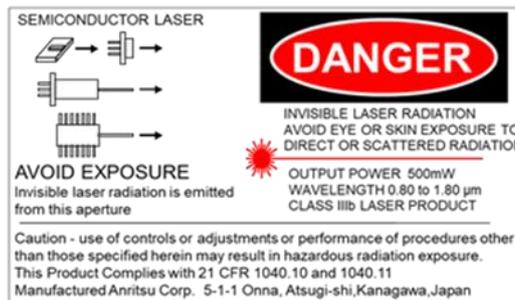
20 : 1420nm
75 : 1475nm

◆Optical output power

32 : 320mW
50 : 500mW



CAUTION : Handle the fiber of the enclosed device(s) with extreme care ; glass fiber is subject to breakage if mishandled and permanent damage to the device may result. Do not pull the device by the fiber or protective sleeve.
Do not coil the fiber into a loop of than 30 mm in radius.



Please contact following local office for the quotation and order.
Anritsu Corporation reserves the right to change the content of the catalog at any time without notice.

ANRITSU CORPORATION
DEVICES SALES DEPARTMENT
ANRITSU DEVICES CO., LTD.
OVERSEAS MARKETING DEPT.

Tel +81 46 296 6783 fax +81 46 225 8390
5-1-1 Onna, Atsugi-shi, Kanagawa
243-0032 Japan

URL: <https://www.anritsu.com/anritsu-devices>

This product and its manuals may require an Export License / Approval by the Government of the product's country of origin for re-export from your country. Before re-exporting the product or manuals, please contact us to confirm whether they are export-controlled items or not. When you dispose of export-controlled items, the products / manuals need to be broken / shredded so as not to be unlawfully used for military purpose.