

1.48 μm LD Module **AF4Y108GA85J**

AF4Y108GA85J is 1.48 μm high power laser diode module designed for Er doped fiber amplifier. This laser is an uncooled cylindrical type without a thermoelectric cooler (TEC) and features extremely low power consumption.

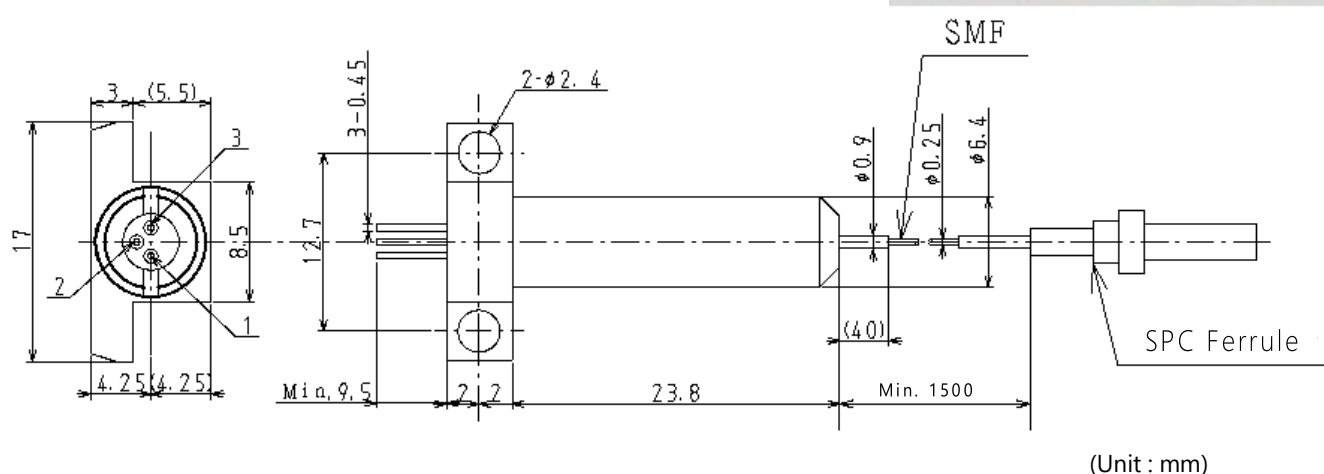
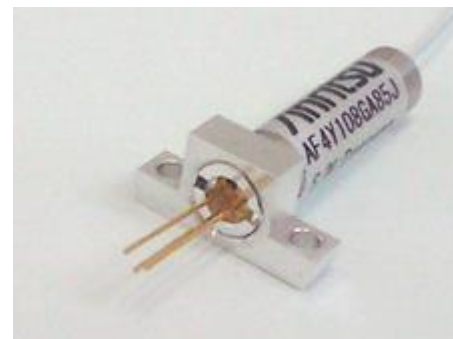
FEATURES

- SMF optical output : 80 mW ($I_F \leq 400$ mA)
- Operating case temperature : -5 to +70°C
- Low power consumption : < 1 W
- Cylindrical module

APPLICATION

- Er doped fiber amplifier

DIMENSIONS



PIN CONFIGURATION

No.	FUNCTION
1	LD cathode
2	NC
3	LD anode

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Ratings	Unit
LD Forward Current	I_F	600	mA
LD Reverse Voltage	V_R	2	V
Operating Case Temperature	T_C	-20 to +70	°C
Storage Temperature	T_{stg}	-40 to +85	°C

*Excess over the absolute maximum ratings may cause device failure.

OPTICAL AND ELECTRICAL CHARACTERISTICS $(T_C = 70^\circ\text{C})$

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Threshold Current	I_{th}	—	—	45	—	mA
Center Wavelength	λ_C	$P_f = 80$ mW, RMS (-20 dB)	1478	—	1490	nm
Forward Current	I_F	$P_f = 80$ mW	—	350	400	mA
Forward Voltage	V_F	$P_f = 80$ mW	—	1.4	1.8	V



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.

SEMICONDUCTOR LASER

AVOID EXPOSURE
Invisible laser radiation is emitted from this aperture

INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION

OUTPUT POWER 500mW
WAVELENGTH 0.80 to 1.80 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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Please read "Notes on Handling Optical Devices" before use.

<https://www.anritsu.com/sensing-devices/guide/optdevices-handling>



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