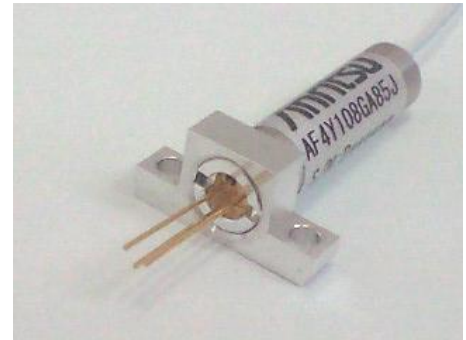


## AF4Y108GA85J 1.48 $\mu$ m Cylindrical Module

This LD is 1.48 $\mu$ m high power laser diode module designed for Er doped fiber amplifier. The laser is packaged in a cylindrical package without isolator, monitor photodiode and thermoelectric cooler (TEC).



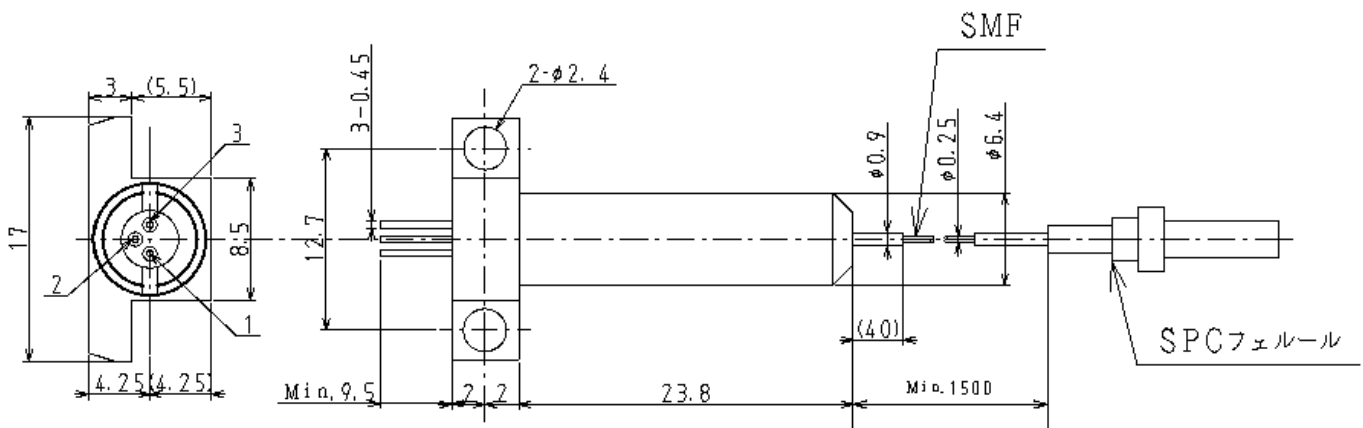
### ■ Features

Uncooled (TEC less) coaxial module

SMF Optical Output: 80 mW ( $I_f < 400\text{mA}$ )  $T_c = 70\text{deg.C}$

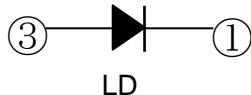
Low power consumption ( $< 1\text{W}$ )

### ■ Dimensions



#3 LD Anode

#1 LD Cathode



LD

Lead polarity

No.	FUNCTION
#1	LD Cathode
#2	NC (Case)
#3	LD Anode

### ■ Absolute Maximum Ratings ( $T_c = 70 \text{ deg.C}$ )

Item	Symbol	Unit	Rating
LD forward Current	$I_f$	mA	600
LD reverse voltage	$V_r$	V	2.0
Operating Case Temperature	$T_c$	deg.C	-5*~70
Storage Temperature	$T_{stg}$	deg.C	-40~85

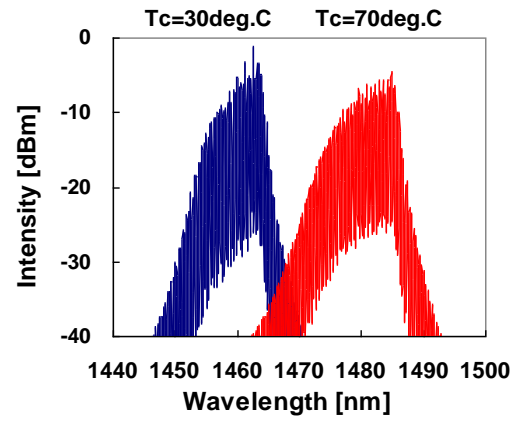
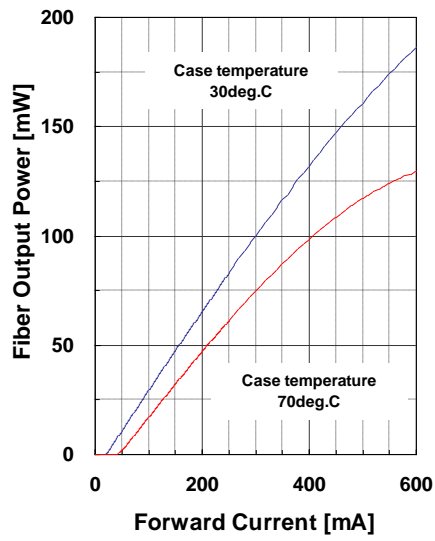
\* No Condensation. Wavelength begins to be distributed under the cut-off (1450nm) when operated below 30degC

### ■ Optical and Electrical Characteristics ( $T_c = 70 \text{ deg.C}$ )

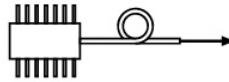
Item	Symbol	Unit	Test condition	Min.	Typ.	Max.
Threshold Current	$I_{th}$	mA			45	55
Forward Current (BOL)	$I_F$	mA	$P_F = 80\text{mW}$		350	400
Center Wavelength *	$\lambda_c$	nm	$P_F = 80\text{mW}$ , RMS (-20dB)	1478		1490
Forward Voltage	$V_F$	V	$P_F = 80\text{mW}$		1.4	1.8

\* Center wavelength is measured under no reflected light condition

## ■ IL Characteristics & Spectrum



## 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  $\mu$ 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  
Manufactured Anritsu Corp. 5-1-1 Onna, Atsugi-shi, Kanagawa, Japan

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

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