

1.31 μm SLD Cylindrical Module AS3E113HJ10M

AS3E113HJ10M is 1.3 μm low power consumption SLD (Super Luminescent Diode) module developed as incoherent light sources for various optical measurements including Optical Coherence Tomography (OCT).

FEATURES

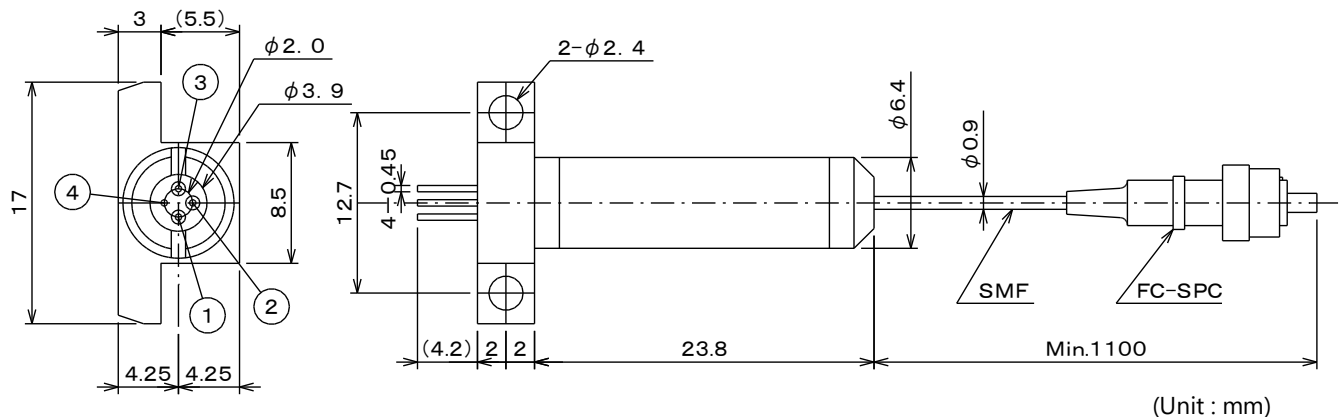
- Optical Output Power : 3 mW
- Spectral Bandwidth : 53 nm typ.
- Uncooled cylindrical module
- Operation Case Temperature : +10 to +50°C

APPLICATIONS

- Light source of optical sensing system
- Optical Coherent Tomography (OCT)

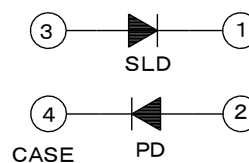


DIMENSIONS



PIN CONFIGURATION

No.	FUNCTION
1	SLD Cathode
2	PD Anode
3	SLD Anode
4	PD Cathode (case)



ABSOLUTE MAXIMUM RATINGS

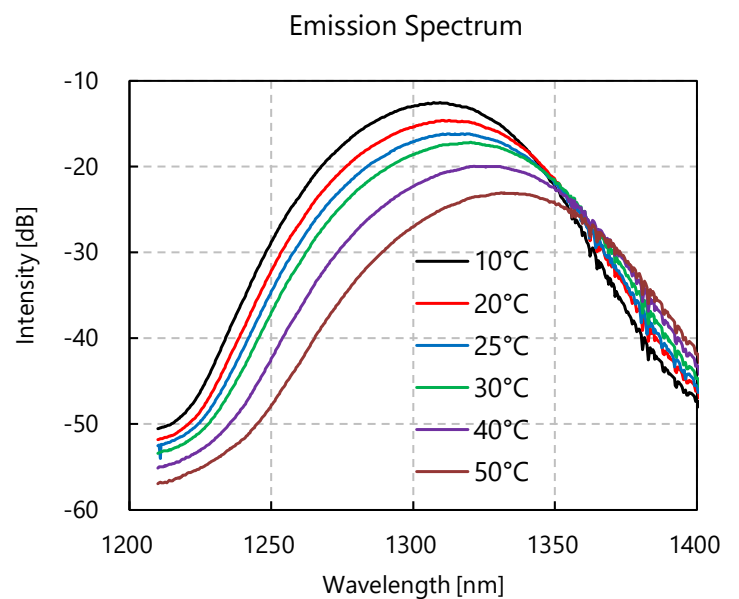
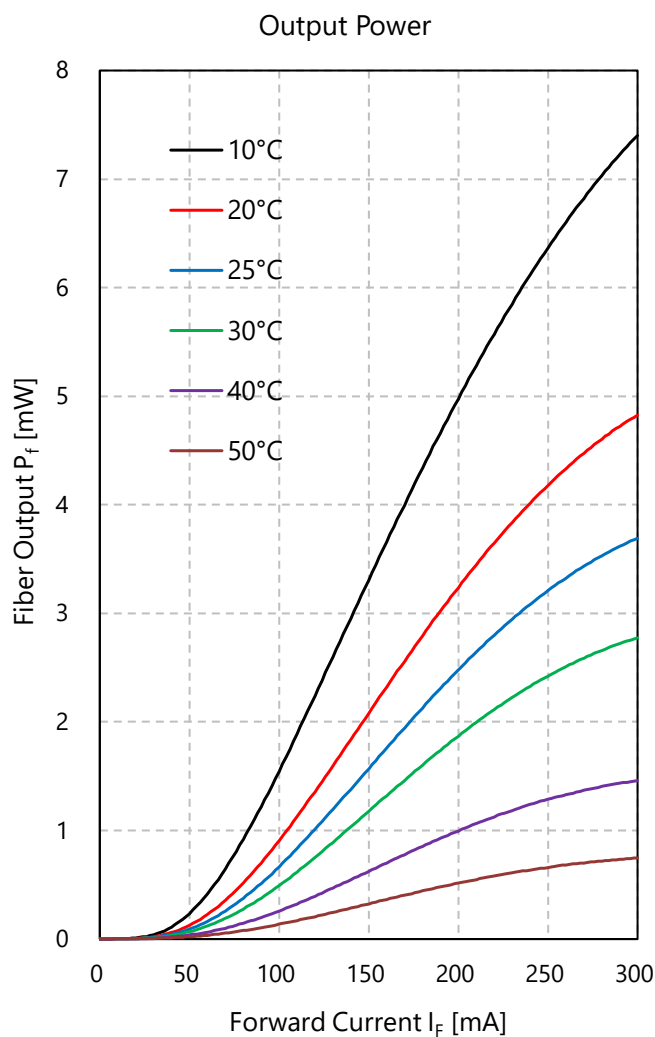
Item	Symbol	Rating	Unit
SLD Forward Current	I_F	300	mA
SLD Reverse Voltage	V_R	2.0	V
PD Reverse Voltage	V_{RD}	15	V
Operating Case Temperature	T_C	+10 to +50	°C
Storage Temperature	T_{stg}	-40 to +80	°C

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

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

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$P_f = 3 \text{ mW}$	—	—	2.0	V
Forward Current	I_F	$P_f = 3 \text{ mW}$	—	—	250	mA
Center Wavelength	λ_C	$P_f = 3 \text{ mW}$, -3 dB	1290	1310	1330	nm
Spectral Bandwidth	$\Delta\lambda$	$P_f = 3 \text{ mW}$, -3 dB	50	53	—	nm
Spectral Ripple	M	$P_f = 3 \text{ mW}$, res = 0.1 nm	—	—	0.4	dB
Monitor Current	I_m	$P_f = 3 \text{ mW}$, $V_{RD} = 5 \text{ V}$	500	—	2500	μA
PD Dark Current	I_d	$V_{RD} = 5 \text{ V}$	—	—	0.1	μA
Isolation	R_O	$\lambda = 1300 \text{ nm}$, $T_C = 25^{\circ}\text{C}$	—	30	—	dB

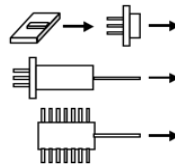
TYPICAL CHARACTERISTICS





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 μ m
CLASS IIb 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

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Contact URL

<https://www.anritsu.com/en-gb/sensing-devices/contact-us>

Please read "Notes on Handling Optical Devices" before use.
<https://www.anritsu.com/sensing-devices/guide/optdevices-handling>



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