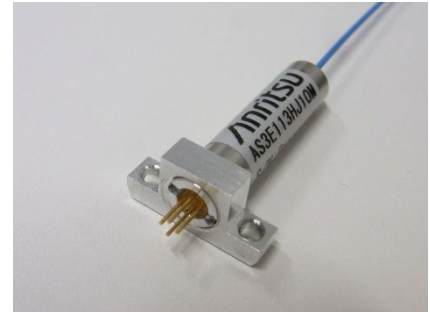


# 1.31 $\mu$ m SLD Cylindrical Module *AS3E113HJ10M*

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

## FEATURES

- Uncooled cylindrical module
- Optical output power (SMF): 3mW
- Spectrum Bandwidth (FWHM): 53nm typ.
- Operation Case Temperature: +10 to +50°C



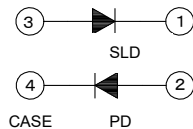
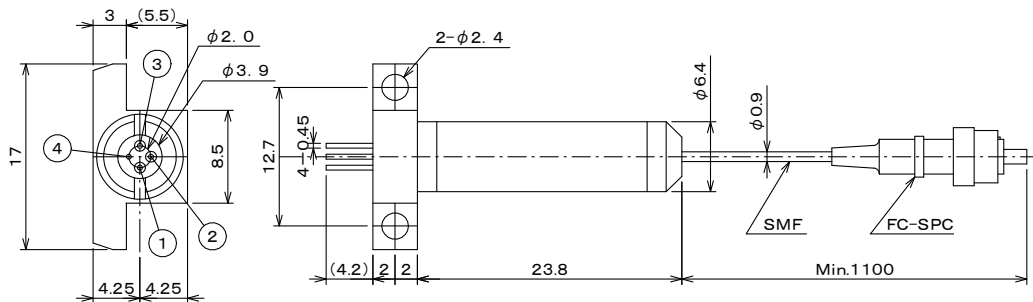
## ABSOLUTE MAXIMUM RATINGS

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

\* Exceeding the absolute maximum ratings may cause a failure.

## DIMENSIONS

(Unit : mm)



## PIN CONFIGURATION

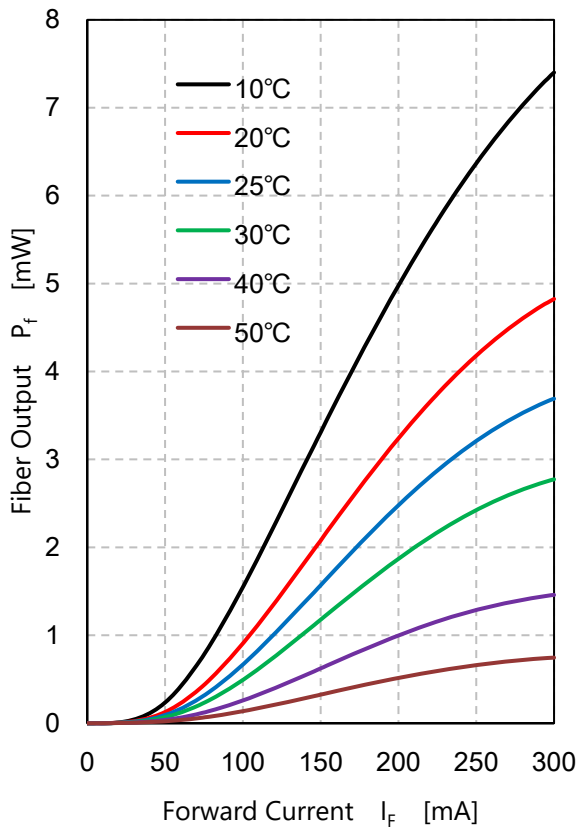
No.	Functions
1	SLD cathode
2	PD anode
3	SLD anode
4	PD cathode (Case)

## OPTICAL AND ELECTRICAL CHARACTERISTICS

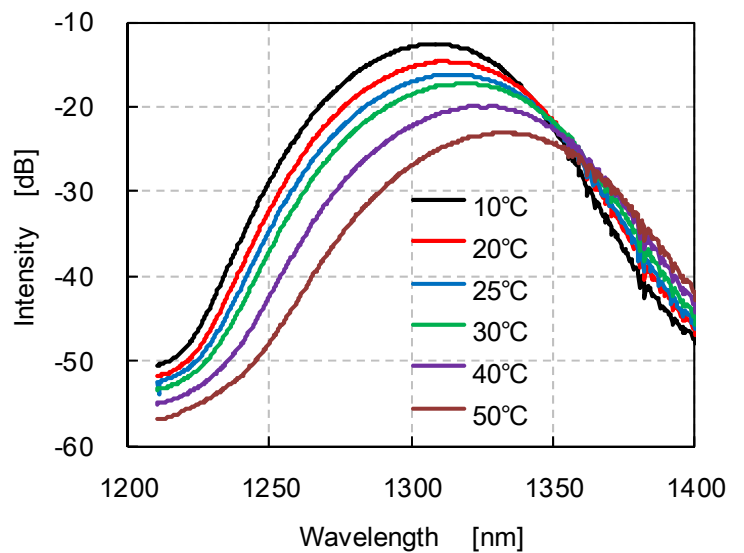
( $T_{SLD}=25^{\circ}\text{C}$ ,  $T_C=25^{\circ}\text{C}$ )

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	$\lambda_C$	$P_f = 3\text{mW}$ , -3dB	1290	1310	1330	nm
Spectrum Bandwidth	$\Delta\lambda$	$P_f = 3\text{mW}$ , FWHM	50	53		nm
Spectral Ripple	M	$P_f = 3\text{mW}$ , res=0.1nm			0.4	dB
Monitor Current	$I_m$	$P_f = 3\text{mW}$ , $V_{RD}=5\text{V}$	500		2500	$\mu\text{A}$
PD Dark Current	$I_d$	$V_{RD} = 5\text{V}$			0.1	$\mu\text{A}$
Optical Isolation	$R_o$	$\lambda=1300\text{nm}$ , $T_C=25^{\circ}\text{C}$		30		dB

## TYPICAL CHARACTERISTICS



Optical output characteristics



Spectrum 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.

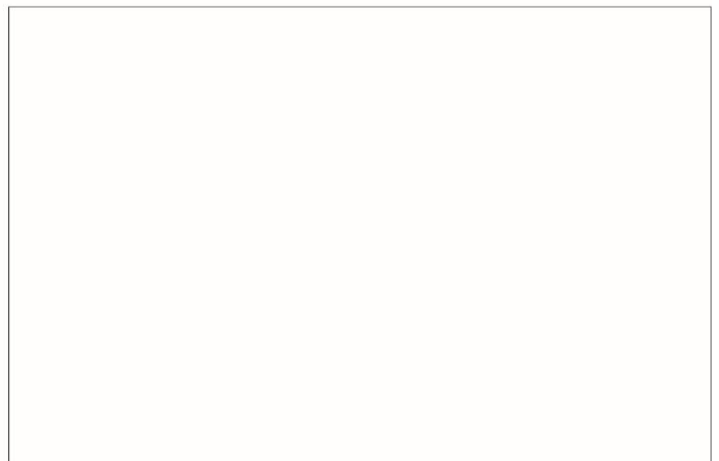
<p>SEMICONDUCTOR LASER</p>	
<p><b>AVOID EXPOSURE</b> Invisible laser radiation is emitted from this aperture</p>	<p>INVISIBLE LASER RADIATION AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION</p> <p>OUTPUT POWER 500mW WAVELENGTH 0.80 to 1.80 μm CLASS IIIb LASER PRODUCT</p>
<p>Caution - use 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</p>	

**ANRITSU CORPORATION  
SENSING & DEVICES COMPANY  
OVERSEAS SALES DEPT**

Tel +81 46 296 6783 fax +81 46 225 8390  
5-1-1 Onna, Atsugi-shi, Kanagawa  
243-8555 Japan

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

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.



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.