

0.8 μm SLD Module *AS8B115L*

AS8B115L is SLD (Super Luminescent Diode) module developed as incoherent light sources for various optical measurements including Optical Coherent Tomography (OCT).

FEATURES

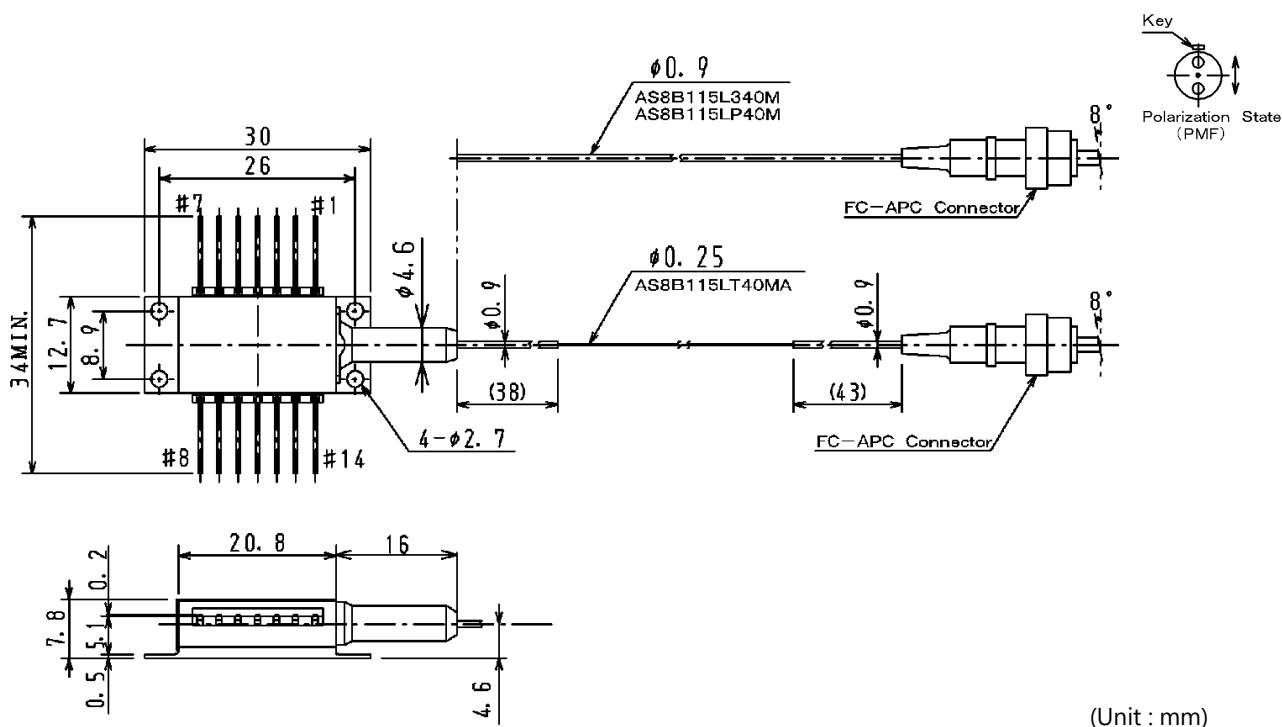
- Optical Output Power : 5 mW ($I_F \leq 180$ mA)
- Spectral Bandwidth : 50 nm typ.
- Fiber
 - Single Mode Fiber (SMF)
 - Polarization Maintaining Fiber (PMF)
- FC-APC Connector
- 14 pin butterfly package
- Internal monitor PD and TEC



APPLICATIONS

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

DIMENSIONS



(Note) Polarization state of LD is aligned parallel to the slow axis.

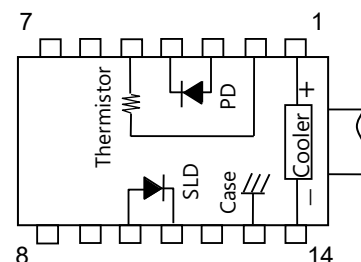
Fiber Specification

Model	Fiber	Fiber length
AS8B115LT40MA	SMF ϕ 0.25 UV Coat	0.4m
AS8B115L340M	SMF ϕ 0.9 Loose Tube	0.4m
AS8B115LP40M	PMF ϕ 0.9	1m min.

PIN CONFIGURATION

No.	FUNCTION	No.	FUNCTION
1	Cooler Anode	8	NC
2	Thermistor	9	NC
3	PD Anode	10	SLD Anode
4	PD Cathode	11	SLD Cathode
5	Thermistor	12	NC
6	NC	13	Case
7	NC	14	Cooler Cathode

TOP VIEW



ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Ratings	Unit
Output Power	P_f	7.0	mW
SLD Forward Current	I_F	220	mA
SLD Reverse Voltage	V_R	2.0	V
PD Reverse Voltage	V_{RD}	20	V
Operating Case Temperature	T_C	-20 to 70	°C
Storage Temperature	T_{stg}	-40 to 85	°C
Cooler Current	I_C	2.0	A

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

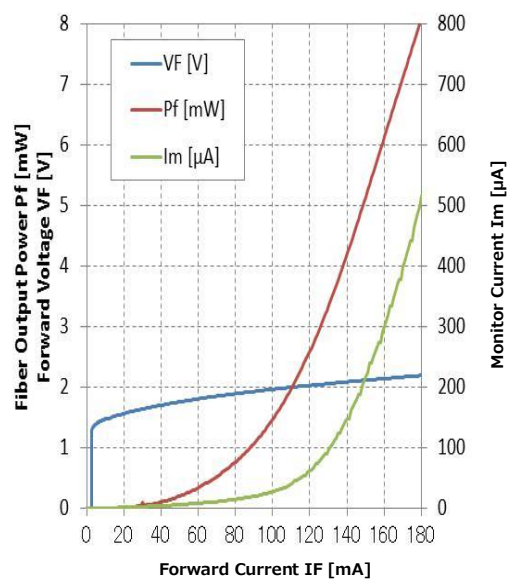
OPTICAL AND ELECTRICAL CHARACTERISTICS ($T_{SLD} = 25^{\circ}\text{C}$, $T_C = 25^{\circ}\text{C}$)

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$P_f = 5 \text{ mW}$	—	2.0	2.5	V
Forward Current (BOL)	I_F	$P_f = 5 \text{ mW}$	—	150	180	mA
Center Wavelength	λ_C	$P_f = 5 \text{ mW}$	820	840	860	nm
Spectral Bandwidth	$\Delta\lambda$	$P_f = 5 \text{ mW}$, -3 dB	45	50	—	nm
Monitor Current	I_m	$P_f = 5 \text{ mW}$, $V_{RD} = 5 \text{ V}$	0.05	—	2.0	mA
Tracking Error	ΔP_f	$I_m = \text{const.}$, $T_C = -20 \text{ to } 70^{\circ}\text{C}$	-1.0	—	1.0	dB
Cooler Voltage	V_C	$I_F = \text{EOL}^{*1}$, $T_C = 70^{\circ}\text{C}$	—	—	2.5	V
Cooler Current	I_C	$I_F = \text{EOL}^{*1}$, $T_C = 70^{\circ}\text{C}$	—	—	1.0	A
Thermistor Resistance	R_{th}	$T_{LD} = 25^{\circ}\text{C}$, $B = 3900 \pm 100 \text{ K}$	9.5	10.0	10.5	kΩ

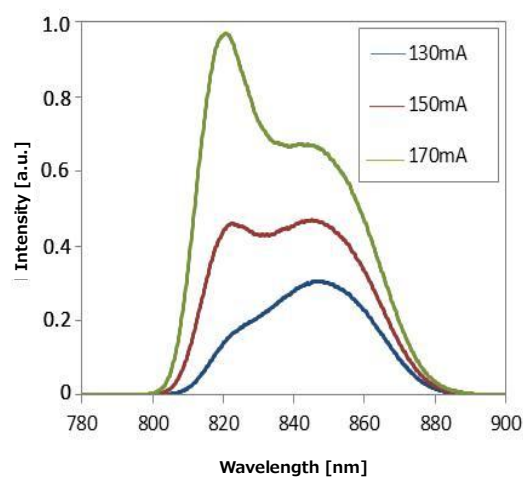
*1 EOL = BOL $\times$ 1.2

TYPICAL CHARACTERISTICS

Output Power / Forward Voltage / Monitor Current



Emission Spectrum



ORDERING INFORMATION

Model	Fiber
AS8B115LT40MA	SMF ϕ 0.25 UV Coat
AS8B115L340M	SMF ϕ 0.9 Loose Tube
AS8B115LP40M	PMF ϕ 0.9



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	

ANRITSU CORPORATION

SENSING & DEVICES COMPANY SALES DEPT.

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

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



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>



■ 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.
■ Anritsu Corporation reserves the right to change the content of the catalog at any time without notice.