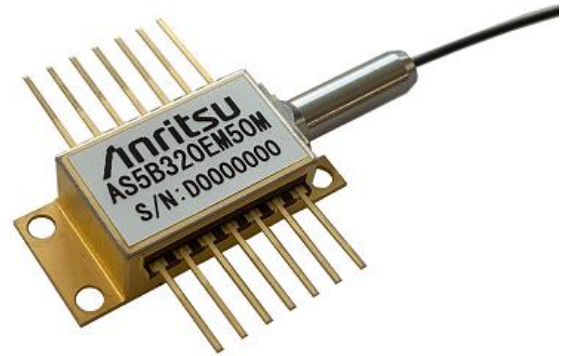


1.55μm SLD Module AS5B320EM50M

AS5B320EM50M is 1.55μm SLD (Super Luminescent Diode) module developed as incoherent light sources for various optical measurement. The device emits incoherent light having wide spectral half width and high output power from PFM (polarization-maintaining fiber).

◆ FEATURES

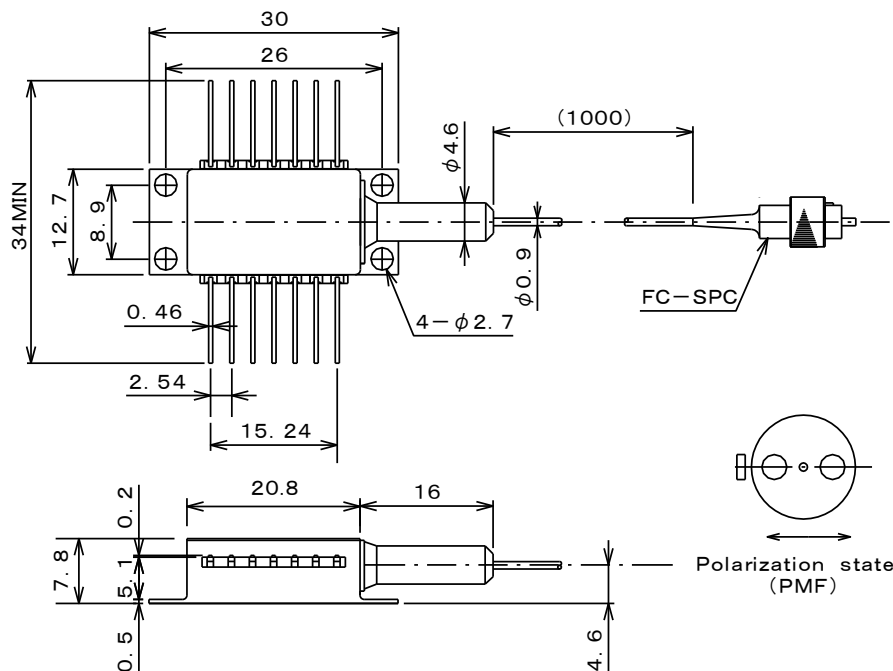
- Optical output: $P_f = 25 \text{ mW}$ (typ.)
- Wide spectral half width: $\Delta\lambda = 55 \text{ nm}$ (typ.)
- Built-in optical isolator
- Built-in monitor PD and TEC



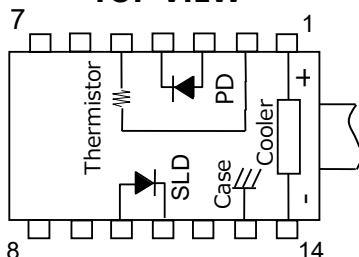
◆ APPLICATIONS

- Optical fiber sensor
- Optical Coherence Tomography (OCT)
- Optical measurement

◆ DIMENSIONS (Unit: mm)



TOP VIEW



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

◆ ABSOLUTE MAXIMUM RATINGS (T_{SLD}=25°C)

Item	Symbol	Rating	Unit
SLD Forward Current	I _F	600	mA
SLD Reverse Voltage	V _R	2	V
PD Forward Current	I _{FD}	10	mA
PD Reverse Voltage	V _{RD}	10	V
Operating Case Temperature	T _C	-20 to +75	°C
Storage Temperature	T _{stg}	-40 to +85	°C
Cooler Current	I _C	2	A

NOTE: Exceeding the absolute maximum ratings may cause a failure.

◆ OPTICAL AND ELECTRICAL CHARACTERISTICS (T_{SLD}=25°C, T_C=25°C)

Item	Symbol	Test conditions	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	IF=500 mA	-	-	2.4	V
Optical Output Power	P _f	IF=500 mA	20	25	-	mW
Center Wavelength	λ _C	IF=500 mA, -3 dB	1530	1550	1570	nm
Spectrum Bandwidth	Δλ	IF=500 mA, -3 dB	50	55	-	nm
Spectral Ripple	M	IF=500 mA, res=0.1 nm	-	-	0.6	dB
Monitor Current	I _m	IF=500 mA, V _{RD} =5 V	400	-	2000	μA
PD Dark Current	I _d	V _{RD} =5 V	-	-	0.1	μA
Tracking Error	ΔP _f	IF=500 mA, T _C =-20 to 75°C	-	-	0.5	dB
Cooler Voltage	V _C	IF=500 mA, T _C =75°C	-	-	3.5	V
Cooler Current	I _C	IF=500 mA, T _C =75°C	-	-	1.2	A
Thermistor Resistance	R _{th}	T _{SLD} =25°C, B=3900±100K	9.5	10	10.5	kΩ
Optical Isolation	R _O	λ=1550 nm, T _{SLD} =25°C	-	30	-	dB



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>DANGER</p> <p>INVISIBLE LASER RADIATION AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION</p>
<p>AVOID EXPOSURE Invisible laser radiation is emitted from this aperture</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>	

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