

0.8 μ m SLD MODULE AS8E210GP30M Optical fiber output power 1mW

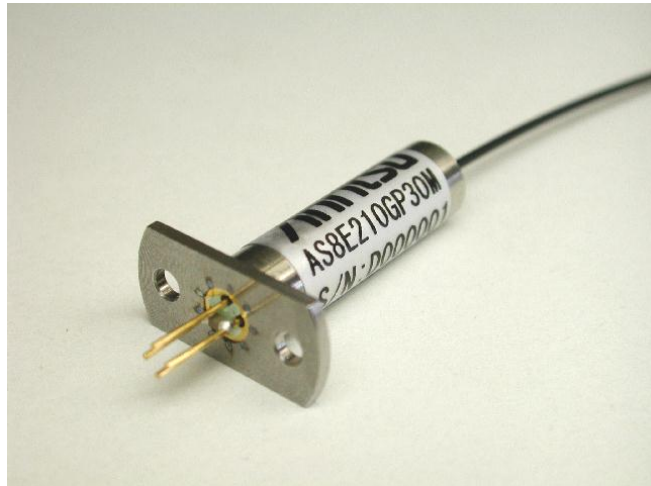
The AS8E210GP30M is SLD (Super-Luminescent Diode) module developed as incoherent light sources for various optical measurements. The device emits incoherent light having wide spectral half width and high output power from PMF (polarization-maintaining fiber).

FEATURES

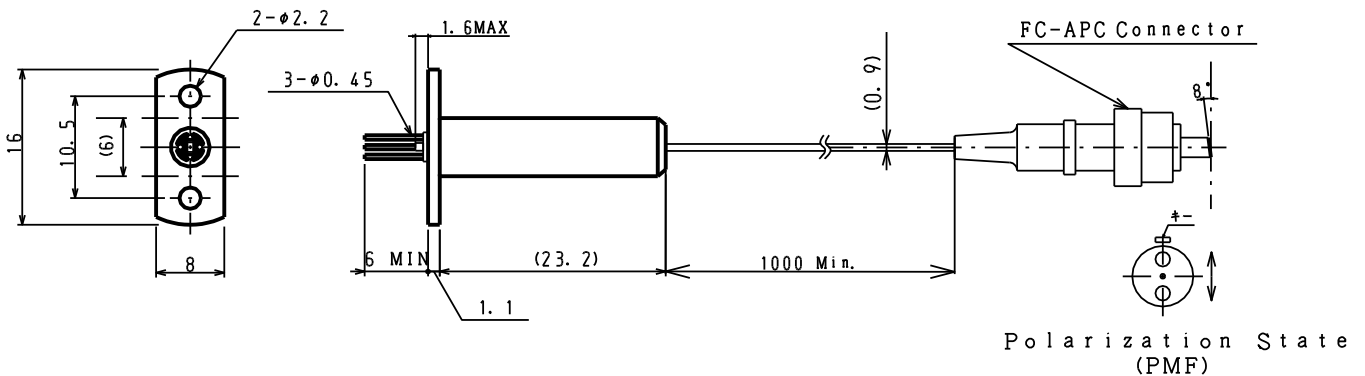
- PMF output coolerless coaxial module
- High optical output $P_f = 1\text{mW}$
- Wide spectral half width $\Delta\lambda = 15\text{nm}$
- Built-in monitor photo diode

APPLICATIONS

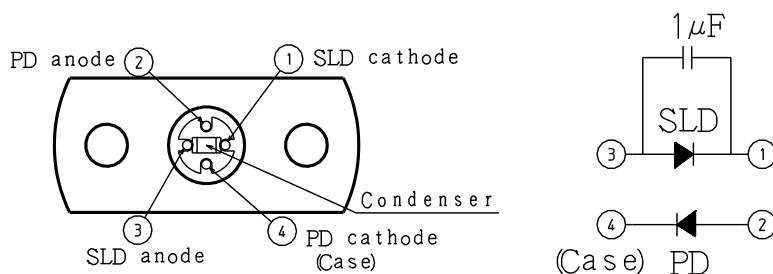
- Optical sensor / Optical encoder
- Optical Coherent Tomography (OCT)
- Optical measurement



DIMENSIONS



Package outline (Unit : mm)



Pin configuration

■ ABSOLUTE MAXIMUM RATINGS

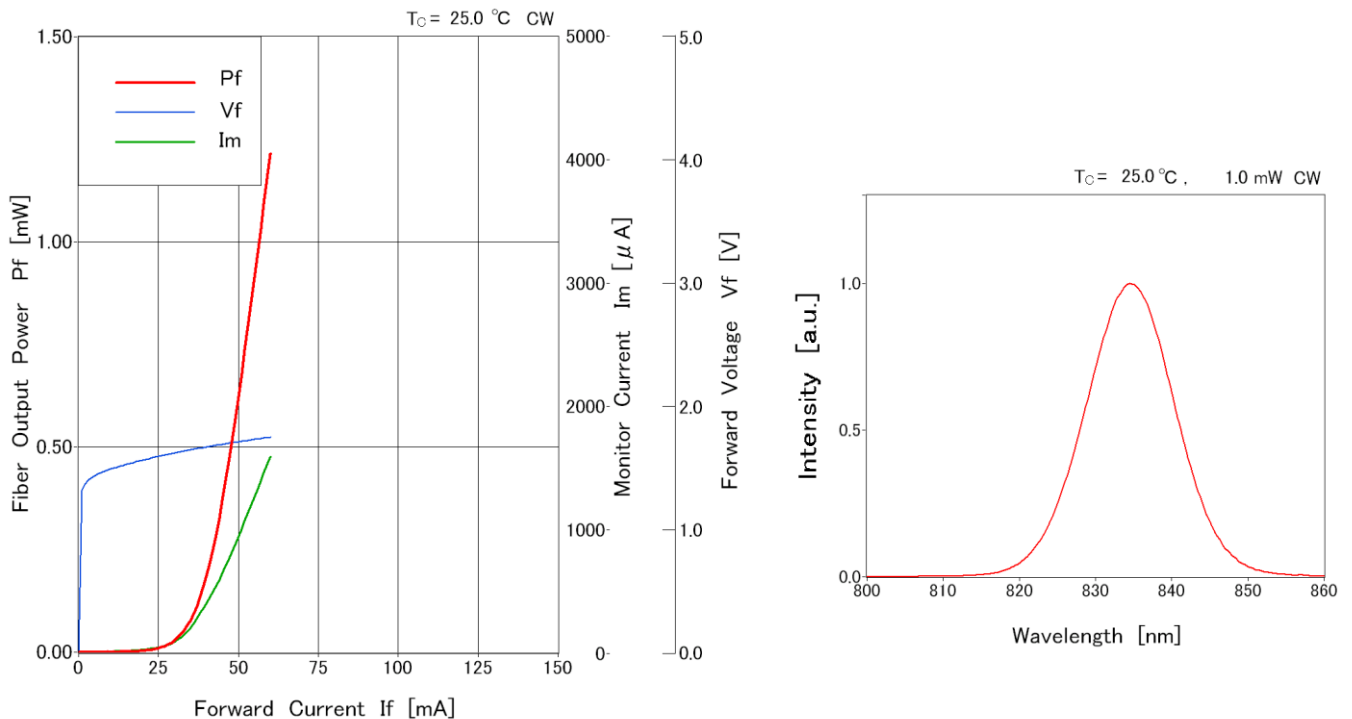
Item	Symbol	Rating	Unit
Optical Output Power	P_f	1.2	mW
SLD Forward Current	I_F	120	mA
SLD Reverse Voltage	V_R	2	V
PD Reverse Voltage	V_{RD}	15	V
Operating Case temperature	T_C	-20~+70	°C
Storage Temperature	T_{stg}	-40~+80	°C

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

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
SLD Forward Current	I_F	$P_f=1\text{mW}$		70	100	mA
SLD Forward Voltage	V_F	$P_f=1\text{mW}$		2.0	2.5	V
Center Wavelength	λ_c	$P_f=1\text{mW}$	810	830	850	nm
Spectral Half Width	$\Delta\lambda$	$P_f=1\text{mW}$	10	15		nm
Spectral Modulation	M_d	$P_f=1\text{mW}$		2	10	%
PD Monitor Current	I_m	$P_f=1\text{mW}, V_{RD}=5\text{V}$	0.2	1.5		mA
Tracking Error	ΔP_f	$I_m=\text{Const}, T_C=-20\sim+70^\circ\text{C}$	-2.0		2.0	dB

■ AS8E210GP30M TYPICAL CHARACTERISTICS

Fiber output power / Monitor Current / Forward voltage – Forward current characteristics / Emission spectrum



<p>SEMICONDUCTOR LASER</p> <p>AVOID EXPOSURE Invisible laser radiation is emitted from this aperture</p>	<p>INVISIBLE LASER RADIATION AVOID DIRECT EXPOSURE TO BEAM</p> <p>OUTPUT POWER 5mW WAVELENGTH 800 to 900nm CLASS III b 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 reserves the right to change the design or specification of the product at any time without notice.

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