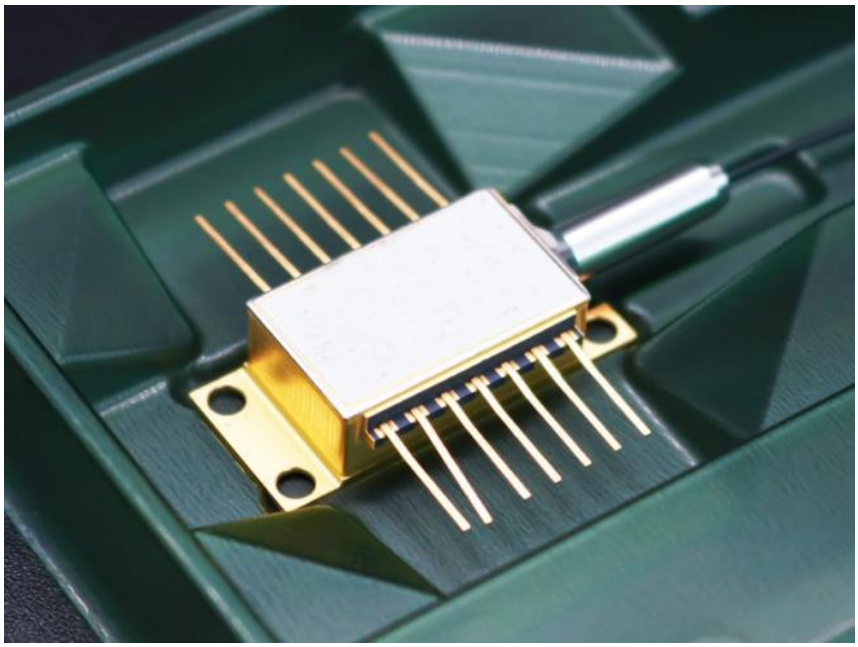
1310nm 15mW PM SLD Laser Diode



Product Description

The 1310 nm SLD (Superluminescent Diode) module, serving as an incoherent light source for various optical measurements. This laser emits incoherent light with a broad spectrum and high output power from a PMF (Polarization-Maintaining Fiber).

Product features

High-power SLD output; Polarization-maintaining fiber coupling; Broad spectral characteristics; High stability; Compact industrial design

Part Number

MP-SLD-1310-15-A81-14BF-PP

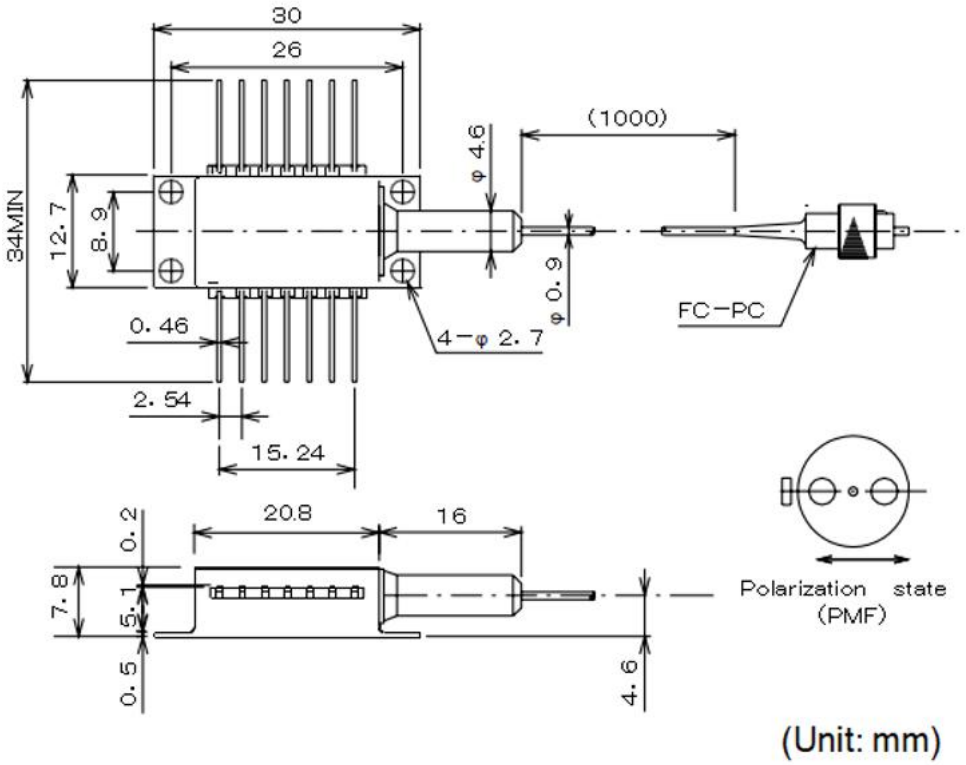
Application area

Optical Coherence Tomography | Fiber-optic sensing | Device testing | Biological detection | Fiber-optic gyroscopes

Core parameters

Center Wavelength	Output Power
1310 nm	15 mW

Dimension Drawing



General Parameters

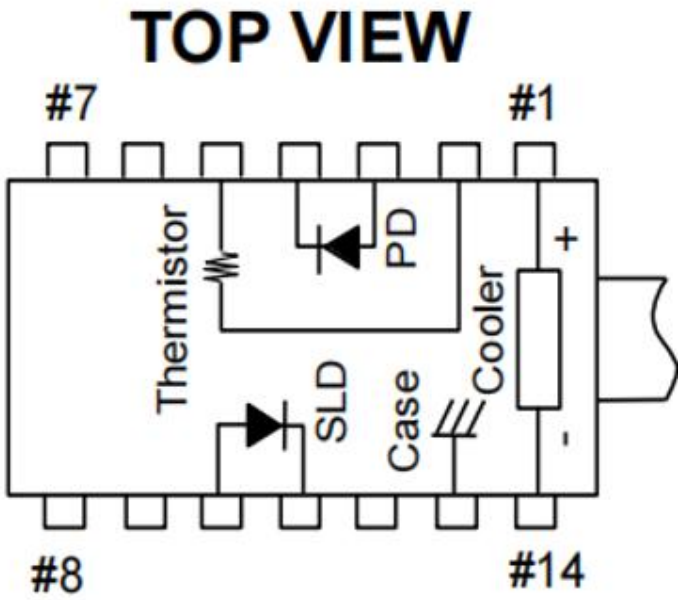
Technical parameters

Photoelectric characteristics (T_{SLD}=25deg. C, T_C=25deg. C)

Parameters	symbol	Test conditions	Min.	typical	Max.	unit
Forward voltage	V_F	P_f=15 mW			2.5	V
Forward current (BOL).	I_F	P_f=15 mW			400	mA
Center wavelength	λ_C	P_f=15 mW, -3dB	1290	1310	1330	nm
Spectral half-width	$\Delta\lambda$	P_f=15 mW, -3dB	50	55		nm
Spectral ripples	M	P_f=15 mW, res=0.1nm			0.6	dB
PD monitors the current	I_m	P_f=15 mW, V_{RD}=5V	100		2000	μA
PD dark current	I_d	V_{RD}=5 V			0.1	μA
Tracking error	ΔPf	I_m=const., T_C=-20 to 75 deg. C			0.5	dB
TEC voltage	V_c	IF= EOL*1, T_C=75 deg. C			3.5	V
TEC current	I_c	IF= EOL, T_C=75			1.2	A

		deg. C				
Thermistors	R_{th}	T_{SLD}=25 deg. C, B=3900±100 K	9.5	10	10.5	kΩ
Optical isolation	R_o	λ=1310 nm, T_{SLD}=25 deg. C		30		dB

Pin definition



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