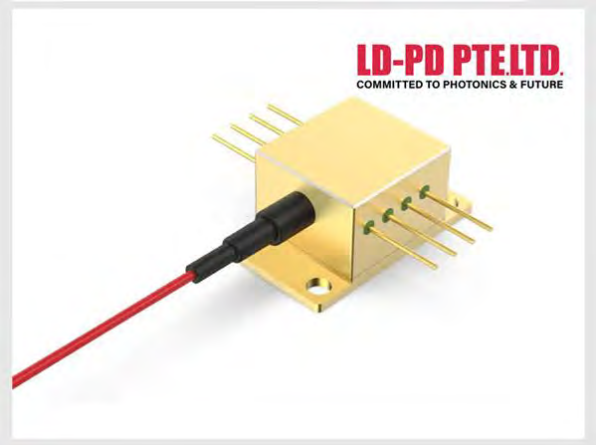
1550nm Super luminescent (SLD) Laser Diode 8-pin cooling



Description

LP-SLD-1550-8PIN-PM is a type of 1550nm superluminescent laser diode (SLD). It is used as an incoherent light source in various optical measurements. This light source features a wide spectrum and high output power, among other characteristics.

Features

- High power > 1.0mW @100mA
- Wide spectrum > 35nm @3dB
- Precise TEC temperature control
- High reliability
- RoHS compliant

Laser Specifications

Optoelectronic Performance Parameters (T=25°C, 100mA)

Parameter	Symbol	Unit	Typical Performance Index
Fiber Output Power	Pf	mW	≥2.0
Average Wavelength	λ	nm	1530-1570
3dB Spectral Width	Δλ	nm	≥40
Ripple	M	dB	≤0.2
Polarization Extinction Ratio	PER	dB	≤1.0

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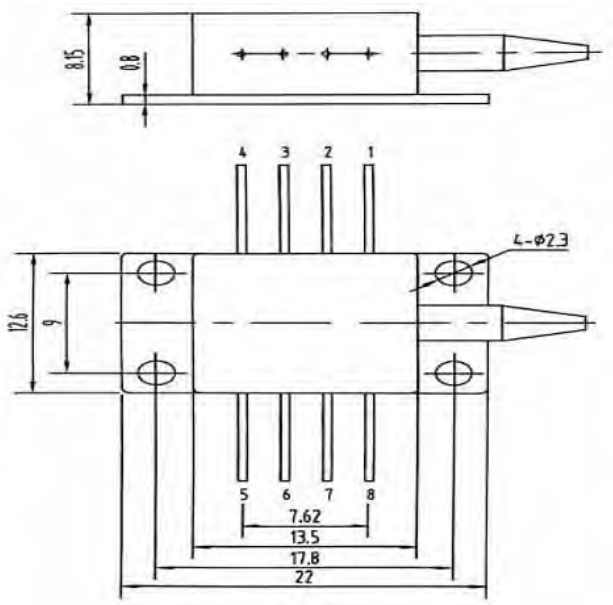
Fiber Type	-	-	SM PM 6/125/250
Package Type	-	-	8 Pin
Operating Temperature	TW	°C	-45~70
Storage Temperature	TS	°C	-55~85
Power Variation @ Operating Temperature 2*(Pmax-Pmin)/(Pmax+Pmin)	-	%	<8

Maximum Parameter Range (T=25°C, If=150mA)

Parameter	Symbol	Unit	Typical Performance Index
Reverse Voltage	VR	V	≤3
Power-on Current	IF	mA	200
TEC Current	IC	A	≤1.5
Fiber Bending Radius		mm	≥30
Soldering Temperature	-	°C	≤260(10s)

Dimensions and Pin definitions

Package Size



unit (mm)

Pin definition

1	Thermoelectric Cooler (+)	2	Thermistor
3	Thermistor	4	LD+
5	LD-	6	NC
7	NC	8	TEC-

Fiber Specification

Fiber Specification	Min	Typ	Max	Unit
Fiber type	SM PM 6/125/250			
Loose tube length	45			cm
Fiber length	1.0	-	-	m
Connector type	None			

Safety Marking



Note:

- Invisible laser radiation. Avoid direct or scattered radiation exposure to eyes or skin.

Application

- Fiber Optic Gyroscope
- Optical Measurement
- Fiber Optic Sensing