

Superluminescence Diode Module

1550nm(Fiber power 2mW)



● Product Description

The Super Luminescent Diode (SLD) chip high power series is a high performance, low polarization, wide spectrum SLD module. It complies with GR-468-CORE standard and is ROHS certified.

● Part Number

SLD-2510O1HO

● Product features

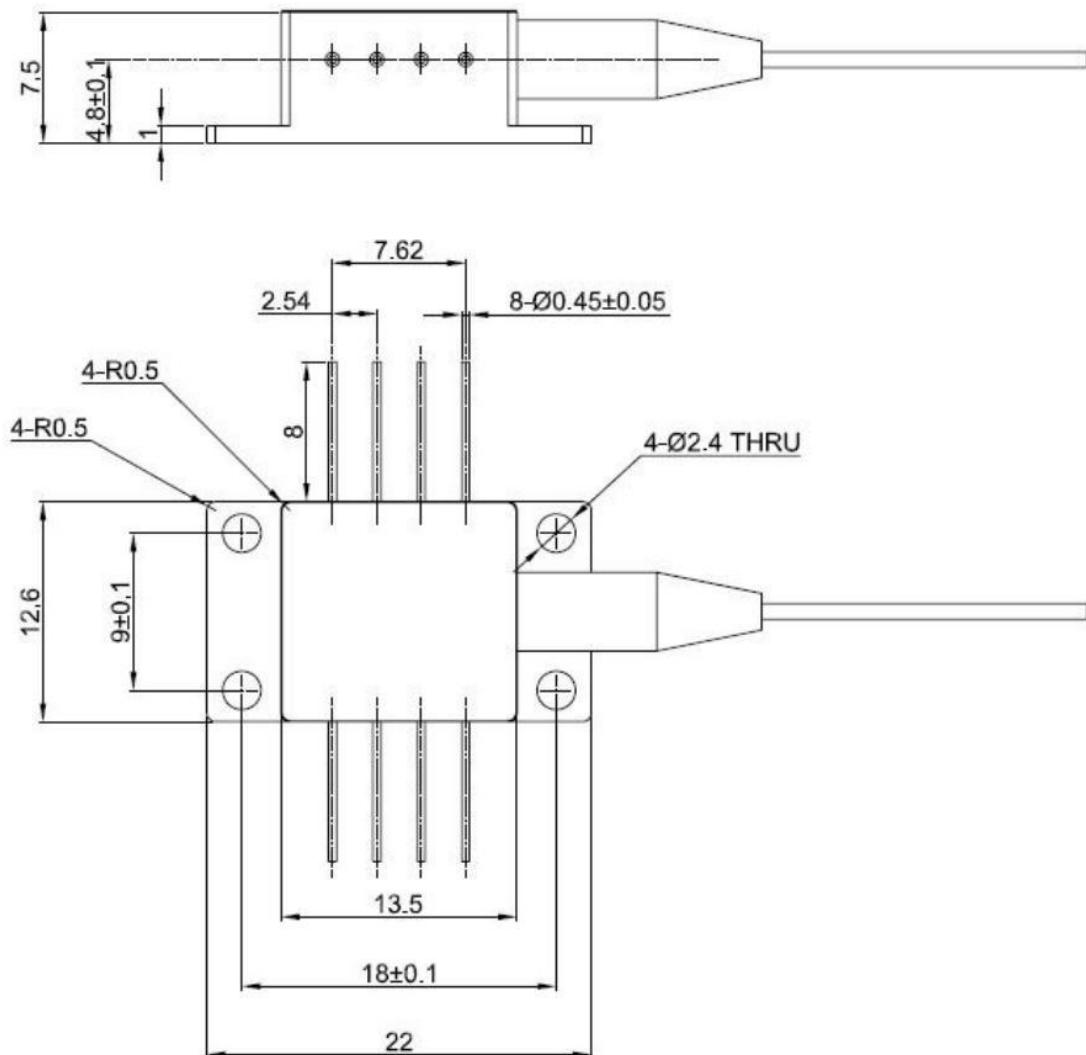
Use high output power chip、8-inch BTF set、3dB bandwidth > 40nm、

Operating temperature -45~+70°C、SM fiber or PM fiber pigtail

● Application area

Broadband light sources、Sensing and testing

● Dimensional Drawing



● Main Parameters:

Unless otherwise stated, all measurements were performed at a chip temperature of 25°C.

Absolute Max. Ratings						
Parameters	Symbol	Min	Typical	Max	Unit	Notes
Storage temperature	TS	-55	-	+85	°C	
Operating temperature	Tc	-45	-	+70	°C	
Reverse voltage	VCC	-	-	2.0	V	
Forward current	Ic	-	-	200	mA	
Thermoelectric cooler voltage	V	-	-	3.2	V	
Thermoelectric cooler current	I	-	-	1.2	A	
Storage humidity	-	5	-	85	%RH	

Lead solder temperature	-	-	-	260	°C	
Lead soldering time	-	-	-	10	s	
Pigtail tensile strength	-	1	-	-	kgf	
Fiber bending radius	-	30	-	-	mm	

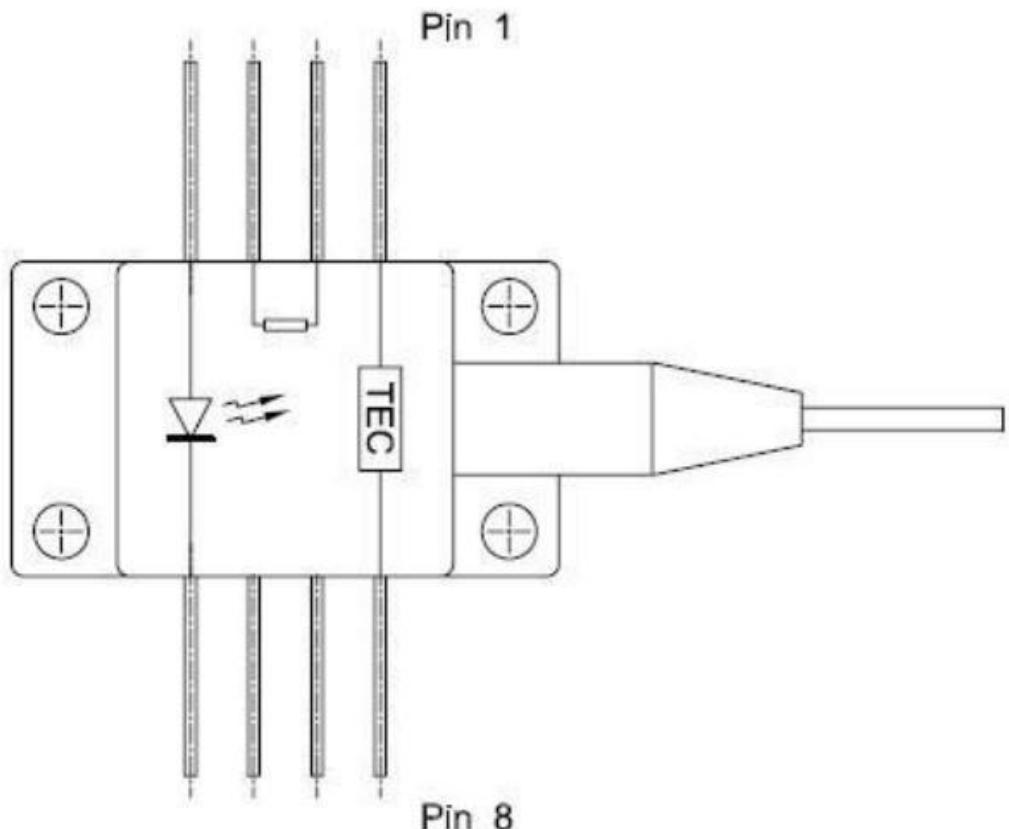
Optical and electrical characteristics of the transmitter							
Parameters	Symbol	Min	Typical	Max	Units	Notes	
Operating current	ITH	-	100	150	mA	CW	
Fiber power	P	-	2	-	mW	CW, ITH =100mA	
3dB bandwidth	$\Delta\lambda$	40	-	-	nm	CW	
Center wavelength	λ_c	1530	1550	1570	nm	CW	

Spectrum modulation	-	-	0.1	0.2	dB	-
Extinction ratio	ER	-	-	1	dB	CW
TEC current	Ic	-	-	1.2	A	Tc=-45~ +70°C
TEC voltage	Vc	-	-	3	V	Tc=-45~ +70°C
Thermistor	Rth	9.5	10	10.5	KΩ	Tc =25°C
Thermistor B constant	B	-	3950	-	K	-

Pigtail parameters

Parameters	Symbol
Fiber length	1.0±0.05 meters
Fiber type	SM fiber

● Pin Definition



PIN	Connection	PIN	Connection
1	TEC Cooler (+)	5	SLD Cathode (-)
2	Thermistor1	6	NC
3	Thermistor1	7	NC
4	SLD Anode (+)	8	TEC Cooler (-)

● Part Number Description

SLD —— 2₁ 3₂ 2₃ 0₄ O₅ 1₆ G₇ O₈

Polarization:

I: Independent 0: Correlation

Power:

A: 100uW<P≤200uW B: 200uW<P≤300uW
 C: 300uW<P≤500uW D: 500uW<P≤800uW
 E: 800uW<P≤1000uW F: 1000uW<P≤1500uW
 G: 1500uW<P≤2000uW H: >2000uW

Extinction Ratio :

1: Low Rate (<1dB) 2: High Rate (>15dB)

Monitor :

O: No Monitor P: Have Monitor

Interface Type:

O: Bare Fiber 1: FC/PC 2: FC/APC 3:SC/APC

Fiber Type:

1: Singer Fiber Mode 2: PM Fiber

Operating Wavelength:

3: 1310nm 5: 1550nm 8: 850nm

Encapsulation Type:

2: Butterfly 8Pin