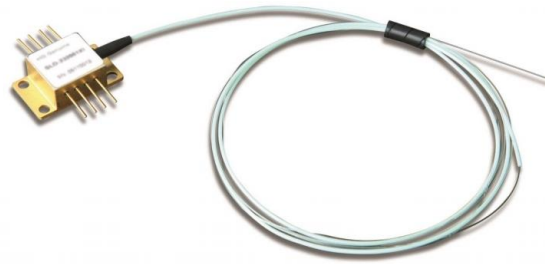


## Superluminescence Diode Module

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.

### ● 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

### ● Part Number

MP-SLD-1550-2-8BF-SA

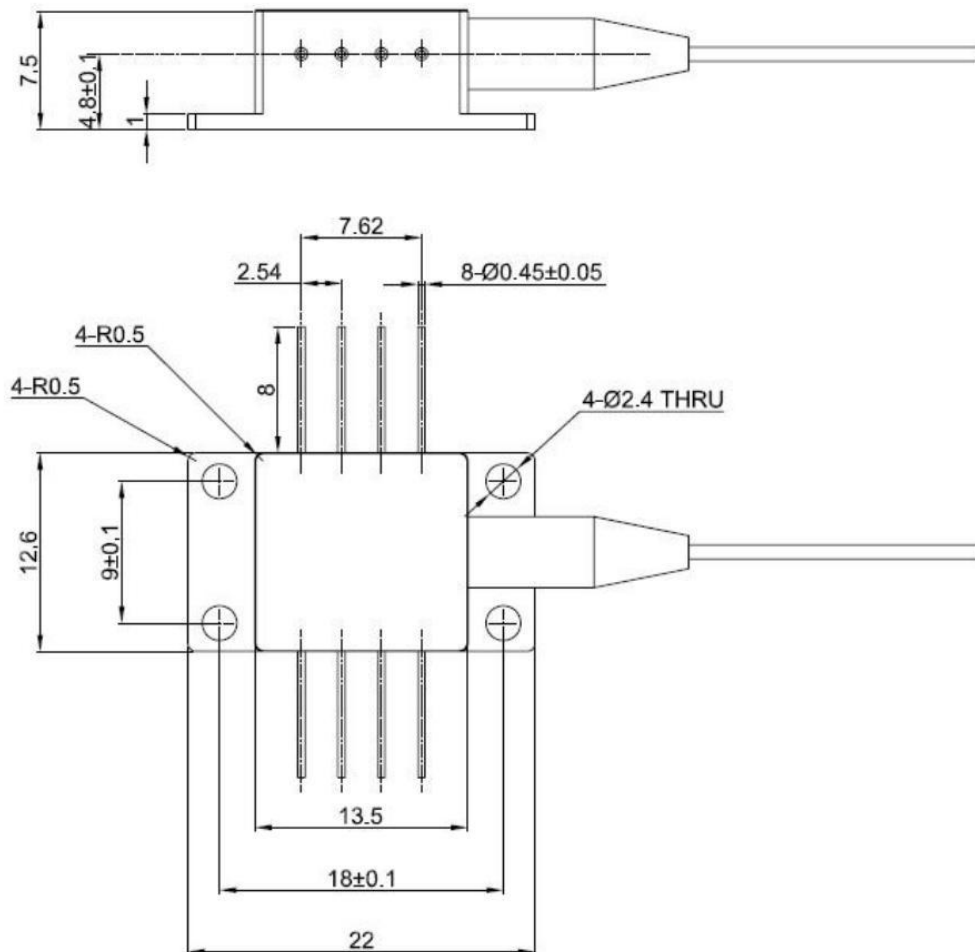
- **Application area**

Broadband light sources, Sensing and testing

- **Core parameters**

Center wavelength	Output power
1550nm	2mW

- **Dimension Drawing**





## ● General Parameters

Main Parameters:

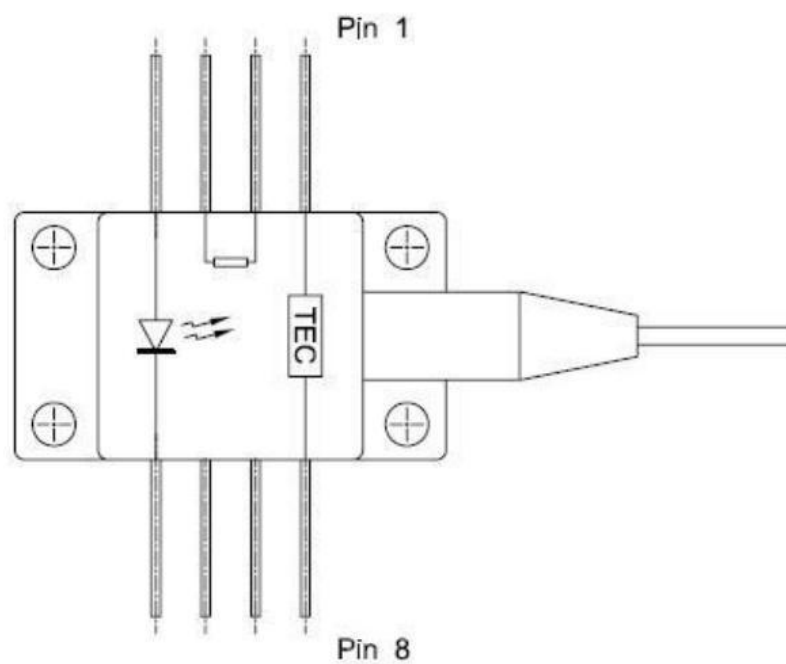
Unless otherwise stated, all measurements were performed at a chip temperature of 25°C.

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	$\lambda_c$	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	K $\Omega$	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 — **2**<sub>1</sub> **3**<sub>2</sub> **2**<sub>3</sub> **0**<sub>4</sub> **O**<sub>5</sub> **1**<sub>6</sub> **G**<sub>7</sub> **O**<sub>8</sub>

**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 :**

0: No Monitor    P: Have Monitor

**Interface Type:**

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

**Fiber Type:**

1: Single Fiber Mode    2: PM Fiber

**Operating Wavelength:**

3: 1310nm    5: 1550nm    8: 850nm

**Encapsulation Type:**

2: Butterfly 8Pin