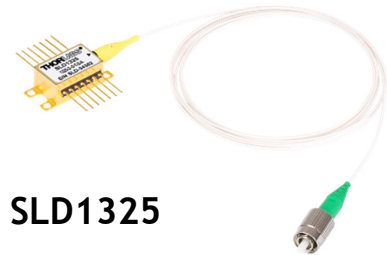


High-Power Broadband 1325 nm Superluminescent Diode



SLD1325

Description

Thorlabs' SLD1325 is a high-power, broadband 1325 nm Superluminescent Diode. It is hermetically sealed in a 14-pin butterfly package and includes a built in thermoelectric cooler and thermistor for temperature control. Each device goes through burn-in screening, mechanical robustness testing, and characterization testing before being packaged. Each SLD is shipped with its own characterization sheet.

Note: The specifications given below should be used as guidelines. The characterization sheet shipped with each SLD provides specifications particular to that device. Failure to adhere to the specifications on the characterization sheet will shorten the lifetime of the SLD or cause it to fail.



Specifications

SLD1325	
Center Wavelength	1325 nm
Bandwidth	>100 nm
Fiber-Coupled Power	>10 mW
Maximum SLD Injection Current	780 mA
Maximum Voltage	4 V
Operating Temperature Range	0 - 40 °C
Isolation of Integrated Isolator	>30 dB
Maximum Thermoelectric Cooler Current	4 A
Maximum Thermoelectric Cooler Voltage	4 V
Thermistor Resistance*	10 kΩ

Fiber Specifications	
Fiber Pigtail	SMF-28e
Fiber Length	~1 m
Fiber Connector	FC/APC
Return Loss of FC/APC Connector	>50 dB

*Steinhart-Hart Coefficients: $C_1 = 1.1291$, $C_2 = 2.3413$, and $C_3 = 0.8767$

Drawings

Pin	Function	Pin	Function
1	TEC+	14	TEC-
2	Thermistor	13	Case
3	NC	12	NC
4	NC	11	SLD-
5	Thermistor	10	SLD+
6	NC	9	NC
7	NC	8	NC

