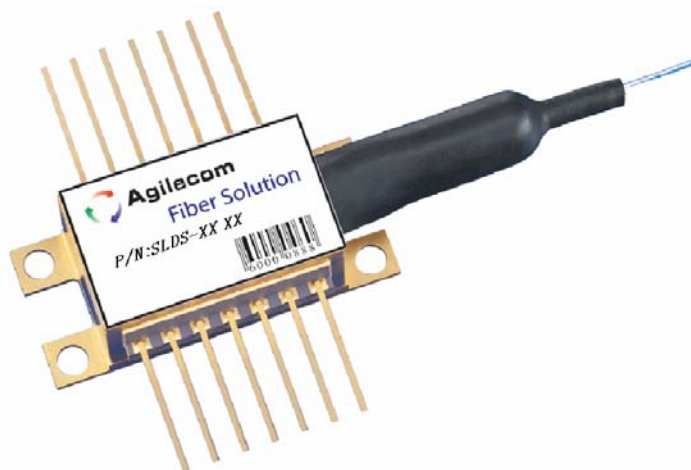


Superluminescent Light Emitting Diode Broadband Light Sources

Agilecom's SLDS are optimized to function as broadband light sources in many applications. The SLDS cover wavelengths ranging from 750nm to 1620nm.

Key Features

- Wavelength can be selected
- Low ASE ripple
- Broad bandwidth
- High output power
- Built-in TEC
- 14-pin butterfly or customized package



Applications

- Fibre optic communications
- Fibre optic gyroscopes
- Optical coherence tomography
- Optical test instruments
- Biomedical imaging systems
- Fibre optic sensors

Absolute Maximum Ratings

Parameter	Symbol	Max	Unit
Laser forward current	I _f	350	mA
Laser reverse voltage	V _r	2.5	V
TEC current	I _c	2.0	A
TEC voltage	V _c	3.3	V
Photo reverse voltage	V _r	5	V
Lead Soldering Temp	—	260	°C
Fiber Bend Radius	—	30	mm

Pin Information

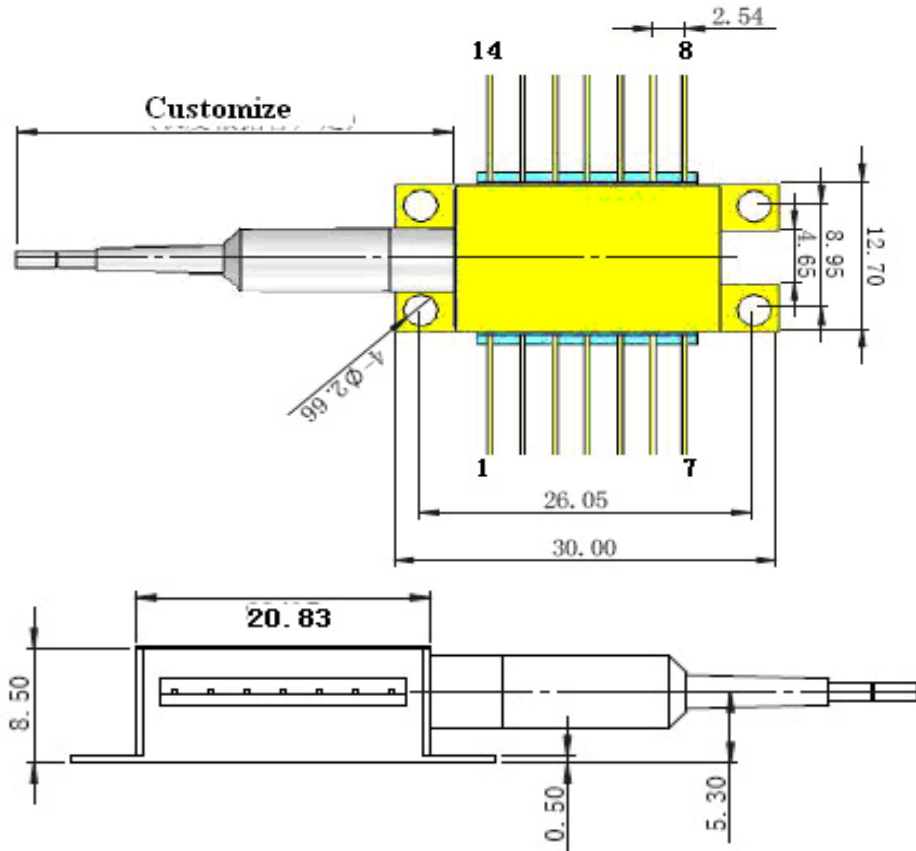
Pin	Function
1	Thermistor
2	Thermistor
3	Laser DC Bias (Cathode) (-)
4	NC
5	NC
6	Thermoelectric Cooler (+)
7	Thermoelectric Cooler (-)
8	Case Ground
9	Case Ground
10	NC
11	Laser Anode (+)
12	RF Laser Input Cathode (-)
13	Laser Anode (+)
14	NC

Specifications

Parameter	Symbol	Min	Typical	Max	Unit
Peak Optical Output Power(at 25°C)	dBm	4	—	—	dBm
Threshold current	I _{th}	—	40.0	50.0	mA
Operating drive current	I _f	—	200	300	mA
Forward voltage	V _f	—	—	2.5	V
Wavelength	λ _c	ITU grid ± 0.15			nm
Bandwidth	L	—	55	—	nm
Monitor current	I _m	100	—	—	mA
Monitor dark current (V _r =-5V)	I _d	—	—	100	nA
Isolation	I _{so}	30	—	—	dB
Thermistor resistance(at 25°C)	R _{th}	9.5	10	10.5	kΩ
TEC current	I _c	—	1.2	—	A
TEC voltage	I _v	—	3.0	—	V
Operating temperature range	T _o	-40	—	70	°C
Storage temperature	T _{stg}	-40	--	85	°C

Notes: Specifications without fiber connectors

Diagram



Ordering Information

For more information on these or other products and their availability, please contact our sales department at 408-943-0815 in North America and 86-760-86781889 in China or via e-mail at info@agilecom.net.

Sample: SLED-1550051424-01

Code Wavelength		Code Output Power		Code Modulation		Code Pigtail		Code Fiber Length		Code Connector	
980	980nm	03	03dBm	C	CW	0	250µm Bare Fiber	1	0.5m	0	None
1310	1310nm	06	06dBm	2	2.5G	1	0.9 mm Loose Tube	2	1.0m	1	SC/UPC
1550	1550nm	10	10dBm	3	3.125G	4	0.9 mm Tight Tube	3	1.5m	2	SC/APC
xxxx	ITU Code	X	Customize	4	10G	X	Customize	4	2.0m	3	FC/UPC
				Code Fiber Type				5	2.5m	4	FC/APC
				1	SMF-28e			6	3.0m	5	LC/UPC
				2	G.657A			A	1.25m	6	LC/APC
				3	1310PM Fiber			B	1.75m	7	ST/UPC
				5	1550PM Fiber			C	2.25m	8	MU
				X	Customize			X	Customize	X	Customize

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