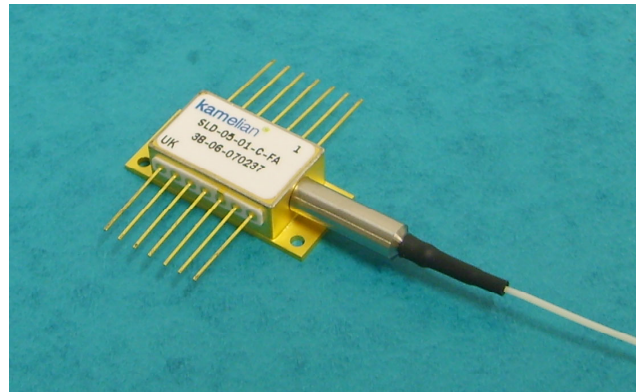


SUPERLUMINESCENT DIODE

Description

Based upon Kamelian's leading InP technology, the Superluminescent Diode (SLD) is a high performance wide spectrum light source designed to meet the demands of a range of applications over several sectors. Housed in an industry standard 14-pin butterfly package, incorporating thermistor and thermo-electric cooler, the SLD delivers high power, broadband light into a single mode fibre terminated to the requirements of the end user.



FEATURES

- 1300nm AND 1550nm WINDOW
- HIGH OUTPUT POWER
- COMPACT PACKAGE
- MSA COMPLIANT

Applications

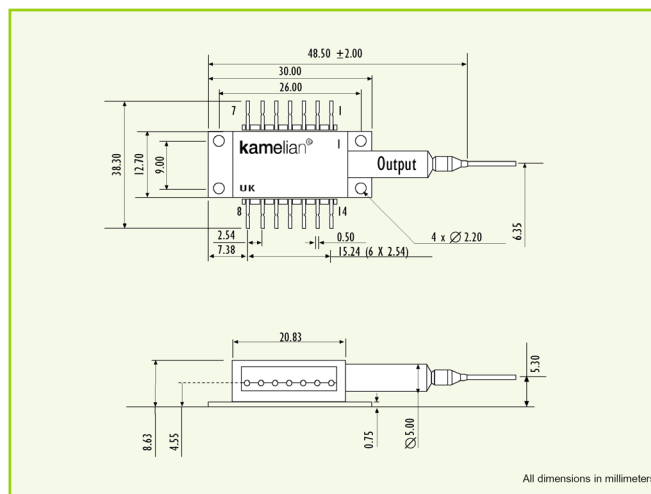
This product addresses needs within the tele-communications, sensing and test and measurement markets as a source for component testing, fibre-optic gyroscopes and fibre grating sensor systems.

Specifications

PARAMETER	MIN SPECIFICATION	TYPICAL SPECIFICATION	MAX SPECIFICATION
Ex-fibre Output Power SLD05	5mW	7mW	
Ex-fibre Output Power SLD10	10mW	15mW	
Centre Wavelength (1300nm)	1290		1320
Centre Wavelength (1500nm)	1530		1560
Emission Bandwidth (3dB)	45nm	50nm	
Peak ripple		0.2dB	0.3dB
Bias current		200mA	250mA
Operating temp	-5°C		70°C
TEC Drive Max		0.7A/1.5V	

Pin Allocation & Package Dimensions

PIN	DEFINITION	PIN	DEFINITION
1	TEC +	8	NC
2	THERMISTOR	9	NC
3	NC	10	SLD ANODE (+)
4	NC	11	SLD CATHODE (-)
5	THERMISTOR	12	NC
6	NC	13	CASE GND
7	NC	14	TEC -



FIBER CONNECTOR	
CODE	CONNECTOR TYPE
FP	FC/PC
FA	FC/APC
FU	FC/UPC
LP	LC/PC
LA	LC/APC
LU	LC/UPC
SP	SC/PC
SA	SC/APC
SU	SC/UPC
ØØ	None

Ordering Information

SLD - **XX** - **PP** - **W** - **ZZ**

Output Power (05 for >5mW and 10 for >10mW are standard; other powers on request)

Package Variant, (01- 14 Pin Butterfly is Standard) others on request

Wavelength (C for C Band; 13 for 1310nm)

Connector Type (See Table Above)



Amphotonix reserves the right to make changes in design, specifications and other information at any time, and without prior notice. The information contained within this Data Sheet is believed to be accurate. However, no responsibility is assumed for possible inaccuracy or omission. Any information contained herein shall legally bind Amphotonix only if it is specifically incorporated into the terms and conditions of a sales agreement.

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