Super-Luminescent Light Emitting Diode Device

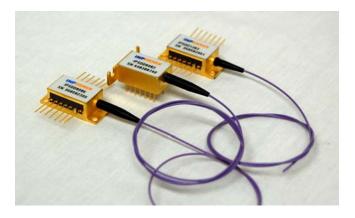
IPSDD1505 (1520nm)

Features

- Wide Optical Bandwidth
- Very Low Spectral Ripple
- High Output Power in SM/or PM Fiber

Applications

- Broadband Light Source for Insertion Loss Test
- Distributed Fiber Optic Sensor (FOS)
- OCT Diagnostic System
- Seed Light for WDM-PON



Device Specifications

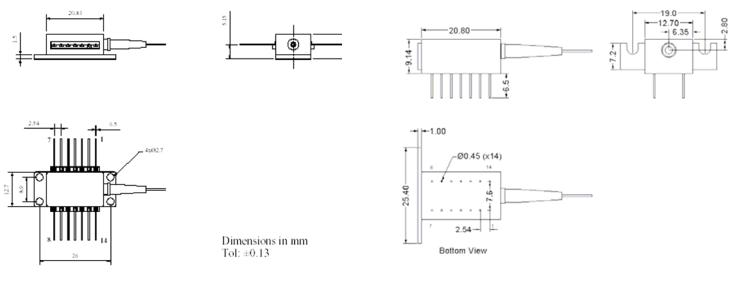
Parameter	Symbol	Min.	Тур.	Max.	Unit
Central Wavelength	$\lambda_{\rm c}$	1500	1520	1540	nm
3dB Bandwidth	$\Delta\lambda_{3dB}$	45	50	-	nm
Output Power in SM Fiber	Po	12	15	-	mW
Spectral Modulation Depth _{p-p}	Δ	-	0.5	1	dB
Operating Current	I _F	-	400	500	mA
Back Facet Monitor	Available upon request				

Absolute Maximum Ratings

Parameter	Min.	Max.	Unit
Operating Temperature	- 20	70	°C
Storage Temperature	- 40	85	°C
TEC Drive Current	-	1.5	А
TEC Drive Voltage	-	3.6	V
Maximum Current	500 mA		mA
Thermistor Resistance	10kΩ @ 25°C		
SLD Chip Temperature Setting		25°C	
Fiber Type	SMF/PMF/MMF		
Fiber Jacket	250μm tight buffer with 900μm loose tube		
Package	14-pin DIL/14-pin BUT/8-pin BUT		
Lead Solder Temperature	260°C for 10 Seconds		

All information contained herein is believed to be accurate and is subject to change without notification. No responsibility is assumed. Please contact InPhenix for more information. InPhenix and the InPhenix logo are trademarks of InPhenix Inc. All rights are reserved.

Package Dimensions

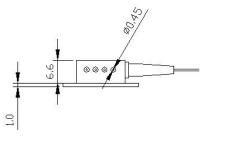


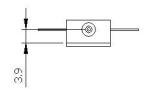
14-Pin BUT Package

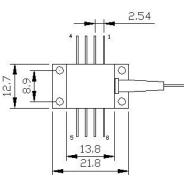
D 00 14

Pin Definition							
14-pin BUT package			14-pin DIL package				
Pin	Function	Pin	Function	Pin	Function	Pin	Function
1	TEC (+)	8	NC	1	TEC (+)	8	NC
2	Thermistor	9	NC	2	NC	9	SLD (-)
3	NC	10	SLD (+)	3	NC	10	Case
4	NC	11	SLD (-)	4	NC	11	Thermistor
5	Thermistor	12	NC	5	SLD (+)	12	Thermistor
6	NC	13	Case	6	NC	13	NC
7	NC	14	TEC (-)	7	NC	14	TEC (-)

• If the SLD is ordered with a Back Facet Monitor, Pin 7 is PD-Cathode and Pin 8 is PD+Anode









Pin Definition

8-pin BUT package			
Pin	Function		
1	TEC (+)		
2	NC		
3	NC		
4	SLED (+)		
5	SLED (-)		
6	Thermistor		
7	Thermistor		
8	TEC (-)		

All information contained herein is believed to be accurate and is subject to change without notification. No responsibility is assumed. Please contact InPhenix for more information. InPhenix and the InPhenix logo are trademarks of InPhenix Inc. All rights are reserved.

Part Numbering System

	IPSDDXXXX -
Model:	
IPSDDXXXX: SLD	Device
Package: 1: 14-pin DIL 2: 8-pin Butterfly 3: 14-pin Butterfly	
Fiber Type: 1: SM Fiber 2: PM Fiber	3: MM Fiber
Jacket Type: 1: 900µm 2: 250µm tight buffe	er
Connector Type:	
0: No Connector	
3: FC/APC	7: SC/APC
4: FC/UPC	8: SC/UPC

Back Facet Monitor:

Available upon request

Example: IPSDD0805-1224: 850nm SLD in 14-pin DIL with 250µm tight buffered PM Fiber with FC/UPC connectors

Corporate Office

250 North Mines Rd Livermore, CA 94551 Tel: 925.606.8809 Fax: 925.606.8810 www.inphenix.com sales@inphenix.com

All information contained herein is believed to be accurate and is subject to change without notification. No responsibility is assumed. Please contact InPhenix for more information. InPhenix and the InPhenix logo are trademarks of InPhenix Inc. All rights are reserved.