Super-Luminescent Light Emitting Diode Device

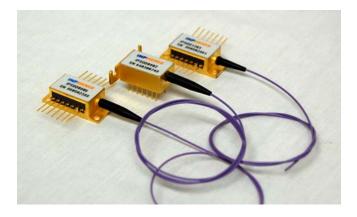
IPSDD0803 (820nm)

Features

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

Applications

- Non Coherent Light
- Fiber Optic Sensor (FOS)
- Biomedical Imaging Device
- Optical Coherence Tomography (OCT)



Device Specifications

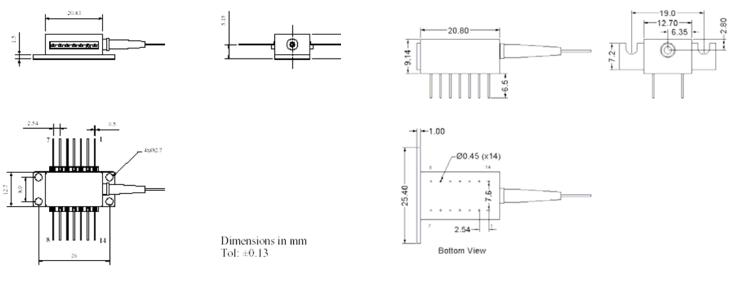
Parameter	Symbol	Min.	Тур.	Max.	Unit
Central Wavelength	λ_{c}	805	820	830	nm
3dB Bandwidth	$\Delta\lambda_{3dB}$	35	40	-	nm
Output Power in SM Fiber	Po	4	5	-	mW
Spectral Modulation Depth _{p-p}	Δ	-	0.1	0.15	dB
Operating Current	I _F	-	180	250	mA
Back Facet Monitor	Available upon request				

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	280 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

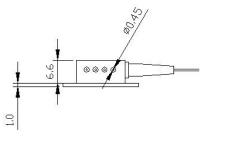


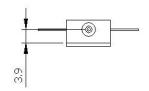
14-Pin BUT Package

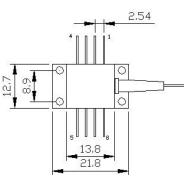
14-Pin	DIL	Package
--------	-----	---------

	Pin Defini	ition					
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	3: MM Fiber	
2: PM 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.