

## Super-Luminescent Light Emitting Diode Device

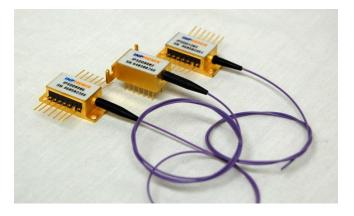
## IPSDD1405 (1490nm)

#### Features

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

## Applications

- • Broadband Light Source for Insertion Loss Test
- · Fiber Optic Sensor (FOS) System
- · Biomedical Imaging Device
- • Optical Coherence Tomography (OCT) for Industries



## **Device Specifications**

Parameter	Symbol	Min.	Тур.	Max.	Unit
Central Wavelength	$\lambda_{c}$	1460	1490	1520	nm
3dB Bandwidth	$\Delta\lambda_{3dB}$	60	65	-	nm
Output Power in SM Fiber	Po	15	18	-	mW
Spectral Modulation Depth <sub>p-p</sub>	Δ	-	-	1.00	dB
Operating Current	I <sub>F</sub>	-	500	600	mA
Back Facet Monitor	Available upon request				

## **Absolute Maximum Ratings**

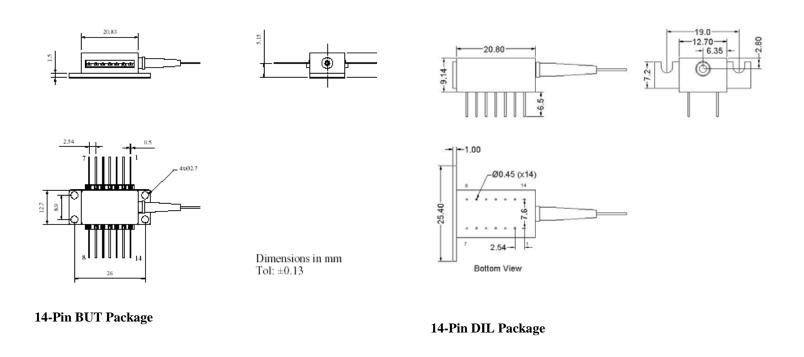
Parameter	Min.	Max.	Unit
Operating Temperature	- 20	70	°C
Storage Temperature	- 40	85	°C
TEC Drive Current	-	1.5	А
TEC Drive Voltage	-	3.6	V
Maximum Current	700 mA		mA
Thermistor Resistance	10kΩ @ 25°C		
SLD Chip Temperature Setting	25°C		
Fiber Type	SMF/PMF/MMF		
Fiber Jacket	250µm tight buffer with 900µm loose tube		
Package	14-pin DIL/14-pin BUT/8-pin BUT		
Lead Solder Temperature	260°C for 10 Seconds		

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## **Product Specification, Revision 1.51**

## **Package Dimensions**

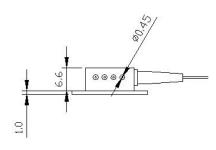


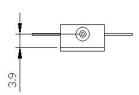
	Pin Defini	tion					
14-pin BUT package			14-pin DIL package				
Pin	Function	Pin	Function	Pin	Function	Pin	Function
1	TEC (+)	8	NC	1	TEC (+)	8	NC
2	Thermistor	9	NC	2	NC	9	SLD (-)
3	NC	10	SLD (+)	3	NC	10	Case
4	NC	11	SLD (-)	4	NC	11	Thermistor
5	Thermistor	12	NC	5	SLD (+)	12	Thermistor
6	NC	13	Case	6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

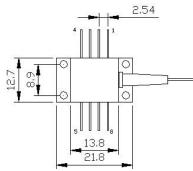
• If the SLD is ordered with a Back Facet Monitor, Pin 7 is PD-Cathode and Pin 8 is PD+Anode

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## **Product Specification, Revision 1.51**







8-Pin BUT Package

#### **Pin Definition**

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

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### Part Numbering System

	IPSDDXXXX -
<b>Model:</b> 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
<b>Jacket Type:</b> 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**

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