Super-Luminescent Light Emitting Diode Device

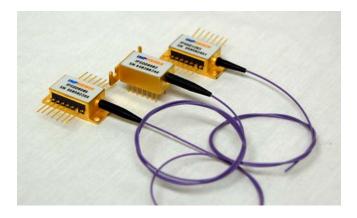
IPSDD1007 (1040nm)

Features

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

Applications

- Non-Coherent Light Source
- Fiber Optic Sensor (FOS) System
- Biomedical Imaging Device
- OCT Diagnostic System



Device Specifications

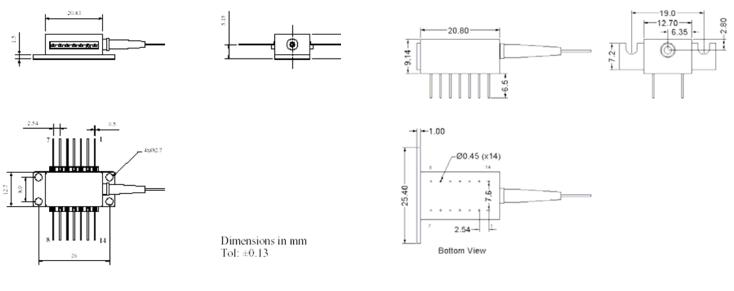
Parameter	Symbol	Min.	Typ.	Max.	Unit
Central Wavelength	λ_{c}	1030	1040	1050	nm
3dB Bandwidth	$\Delta\lambda_{3dB}$	50	55	-	nm
Output Power in SM Fiber	Po	25	30	-	mW
Spectral Modulation Depth _{p-p}	Δ	-	0.2	0.5	dB
Operating Current	I _F	-	400	500	mA
Back Facet Monitor	Available upon request				

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	600 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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Package Dimensions

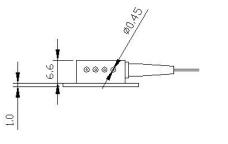


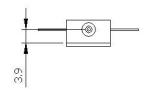
14-Pin BUT Package

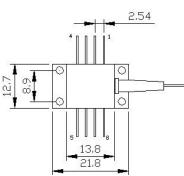
14-Pin	DIL	Package
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	Pin Defini	ition					
14-pin BUT package			14-pin DIL package				
Pin	Function	Pin	Function	Pin	Function	Pin	Function
1	TEC (+)	8	NC	1	TEC (+)	8	NC
2	Thermistor	9	NC	2	NC	9	SLD (-)
3	NC	10	SLD (+)	3	NC	10	Case
4	NC	11	SLD (-)	4	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 (-)		

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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

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