### Super-Luminescent Light Emitting Diode Device

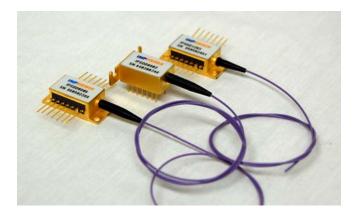
### IPSDD0903 (900nm)

#### Features

- Non-Coherent Light Source
- 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**

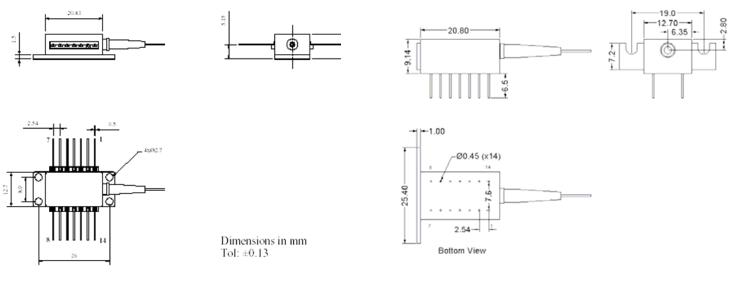
Parameter	Symbol	Min.	Тур.	Max.	Unit
Central Wavelength	$\lambda_{c}$	890	900	920	nm
3dB Bandwidth	$\Delta\lambda_{3dB}$	42	45	-	nm
Output Power in SM Fiber	Po	6	7	-	mW
Spectral Modulation Depth <sub>p-p</sub>	Δ	-	0.1	0.2	dB
Operating Current	I <sub>F</sub>	-	200	300	mA
Back Facet Monitor	Available upon 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	350 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**

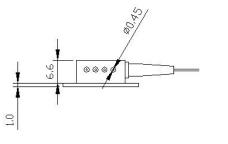


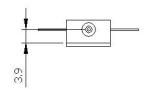
14-Pin BUT Package

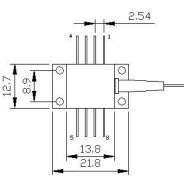
14-Pin	DIL	Package
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	Pin Defini	ition					
14-pin BUT package			14-pin DIL package				
Pin	Function	Pin	Function	Pin	Function	Pin	Function
1	TEC (+)	8	NC	1	TEC (+)	8	NC
2	Thermistor	9	NC	2	NC	9	SLD (-)
3	NC	10	SLD (+)	3	NC	10	Case
4	NC	11	SLD (-)	4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

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