



Super-Luminescent Light Emitting Diode Device

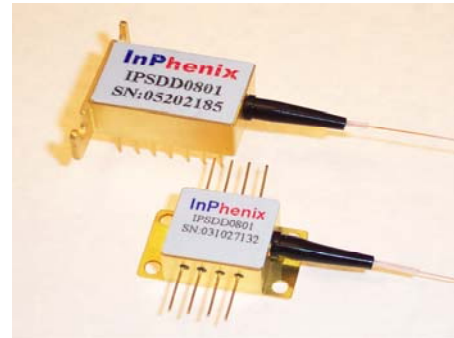
IPSDD080X (840nm)

Features

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

Applications

- Broadband Light Source
- Fiber Optic Sensor (FOS)
- Biomedical Imaging Device
- Optical Coherence Tomography (OCT)



IPSDD0804

Parameter	Symbol	Min.	Typ.	Max.	Unit
Peak Wavelength	λ_p	830	840	845	nm
3 dB Bandwidth	$\Delta\lambda_{3dB}$		35		nm
Output Power in SM Fiber	P_o		5		mW
Spectral Modulation Depth p-p	Δ			4.5	%
				0.2	dB
Operating Current	I_F		200		mA
Back Facet Monitor	Available upon request				

IPSDD0807

Parameter	Symbol	Min.	Typ.	Max.	Unit
Peak Wavelength	λ_p	830	840	845	nm
3 dB Bandwidth	$\Delta\lambda_{3dB}$		45		nm
Output Power in SM Fiber	P_o		8		mW
Spectral Modulation Depth p-p	Δ			4.5	%
				0.2	dB
Operating Current	I_F		300		mA
Back Facet Monitor	Available upon request				

**IPSDD0808**

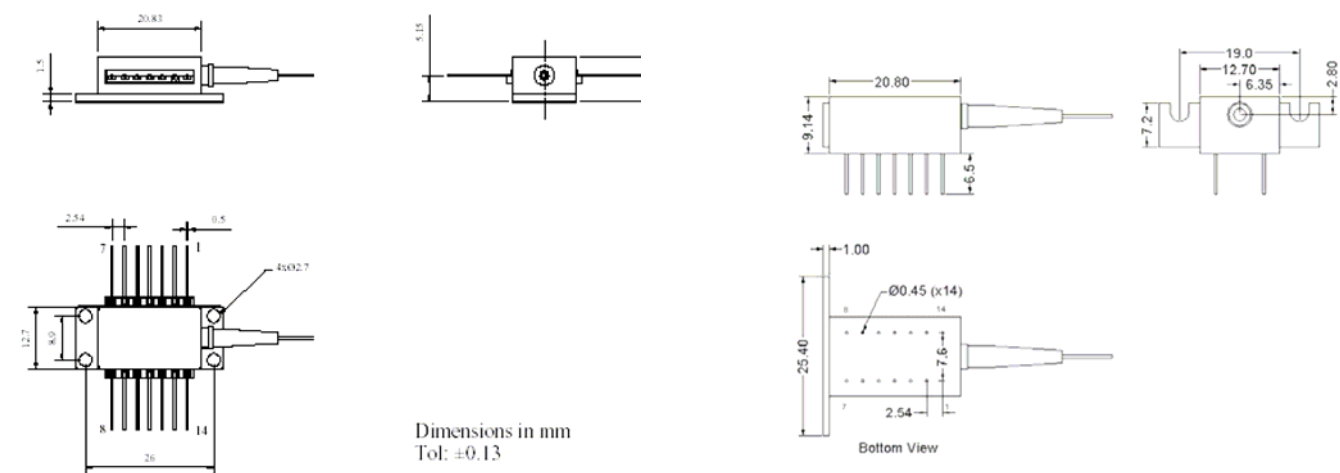
Parameter	Symbol	Min.	Typ.	Max.	Unit
Peak Wavelength	λ_p	830	840	845	nm
3 dB Bandwidth	$\Delta\lambda_{3dB}$		45		nm
Output Power in SM Fiber	P_o		11		mW
Spectral Modulation Depth p-p	Δ			4.5	%
				0.2	dB
Operating Current	I_F		350		mA
Back Facet Monitor	Available upon request				

Absolute Maximum Ratings

Parameter	Min.	Max.	Unit
Operating Temperature	-20	70	°C
Storage Temperature	-40	85	°C
TEC Drive Current		1.5	A
TEC Drive Voltage		3.6	V
Thermistor Resistance	10 k Ω @ 25 °C		
SLED Chip Temperature Setting	25 °C		
Fiber Type	SM800 or HI780		
Fiber Jacket	250 μ m tight buffer with 900 μ m loose tube		
Package	14-pin BUT		



Package Dimensions



14-Pin BUT Package

14-Pin DIL Package

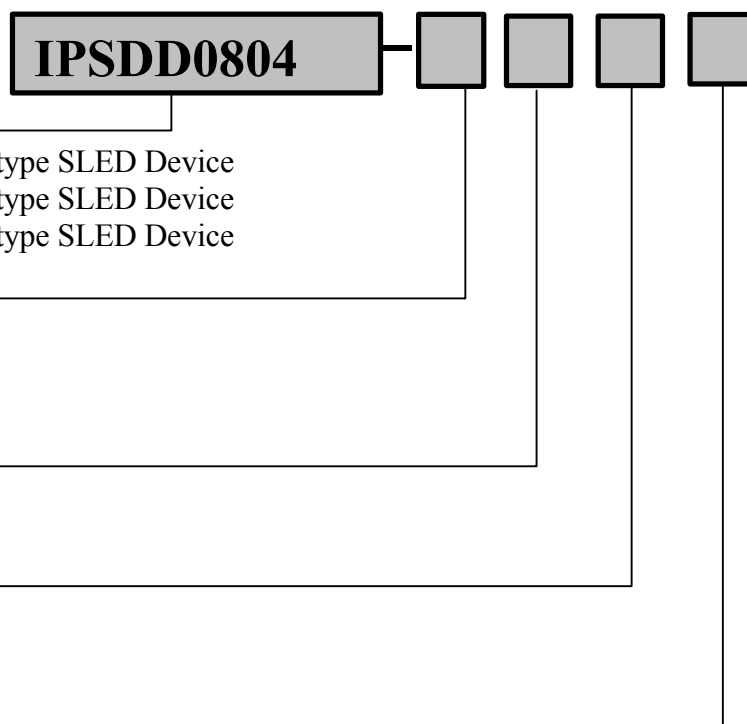
Pin Definition

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

INPHENIX

Part Numbering System



Example: IPSSDD0807-1224: 840 nm OCT-type SLED in 14-pin DIL with 250 μ m tight buffered PM fiber with FC/UPC connectors

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