

Super-Luminescent Light Emitting Diode Device

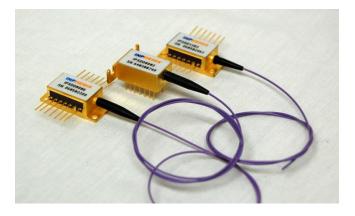
IPSDD1313 (1310nm)

Features

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

Applications

- · Chromatic Mode Dispersion Measurement
- • Broadband Light Source for Insertion Loss Test
- • Biomedical Imaging Device
- Clinical Healing Equipment



Device Specifications

| Parameter | Symbol | Min. | Typ. | Max. | Unit |
|--|------------------------|------|------|------|------|
| Central Wavelength | λ_{c} | 1280 | 1310 | 1360 | nm |
| 3dB Bandwidth | $\Delta\lambda_{3dB}$ | - | 90 | - | nm |
| Output Power in SM Fiber | Po | - | 10 | - | mW |
| Spectral Modulation Depth _{p-p} | Δ | - | - | 1.00 | dB |
| Operating Current | I _F | - | 350 | 0 | mA |
| Back Facet Monitor | Available upon request | | | | |

Absolute Maximum Ratings

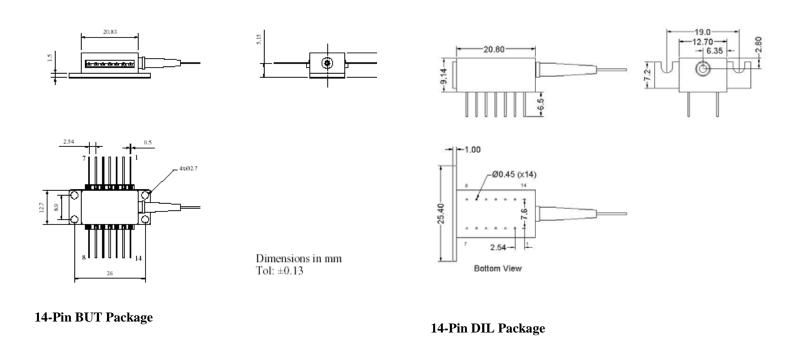
| Parameter | Min. | Max. | Unit | |
|------------------------------|--|------|------|--|
| Operating Temperature | - 20 | 70 | °C | |
| Storage Temperature | - 40 | 85 | °C | |
| TEC Drive Current | - | 1.5 | А | |
| TEC Drive Voltage | - | 3.6 | V | |
| Maximum Current | 500 mA | | mA | |
| Thermistor 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

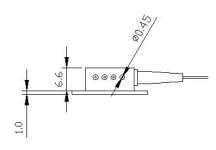


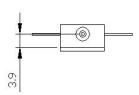
| | Pin Defini | tion | | | | | |
|--------------------|------------|------|--------------------|-----|----------|-----|------------|
| 14-pin BUT package | | | 14-pin DIL package | | | | |
| Pin | Function | Pin | Function | Pin | Function | Pin | Function |
| 1 | TEC (+) | 8 | NC | 1 | TEC (+) | 8 | 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 (-) |

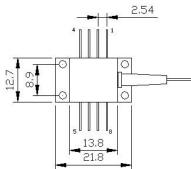
• If the SLD is ordered with a Back Facet Monitor, Pin 7 is PD-Cathode and Pin 8 is PD+Anode

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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 2: PM Fiber | 3: MM Fiber |
| Jacket Type: 1: 900μm 2: 250μm tight buffe | er |
| Connector Type: 0: No Connector | |
| 3: FC/APC | 7: SC/APC |

Back Facet Monitor:

4: FC/UPC

Available upon request

Example: IPSDD0805-1224: 850nm SLD in 14-pin DIL with 250µm tight buffered PM Fiber with FC/UPC connectors

8: SC/UPC

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