

1310nm 10mw DFB Coaxial Pigtailed Laser Diode with SMF

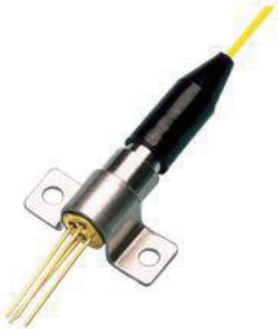
1310nm SM DFB fiber coupled LD

WSLP-1310-010m-9-DFB

Wavespectrum laser inc.

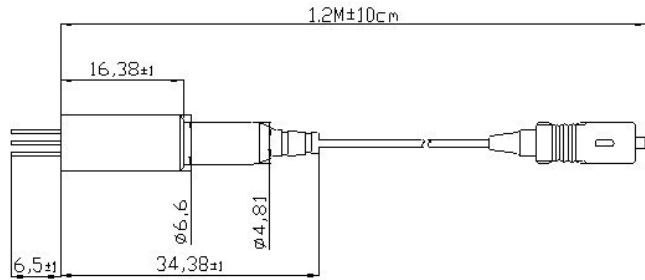
www.wavespectrum-laser.com

| PARAMETER                            | SYMBOL      | VALUE     | UNIT |
|--------------------------------------|-------------|-----------|------|
| LD Reverse Voltage                   | $V_r$       | 2.0       | V    |
| PD Reverse Voltage                   | $V_{r(PD)}$ | 15        | V    |
| Operating Temperature                | $T_{op}$    | -10~+85   | °C   |
| Storage Temperature                  | $T_{stg}$   | -40 ~ +85 | °C   |
| Lead soldering temperature (10 sec.) | $T_{is}$    | 260       | °C   |

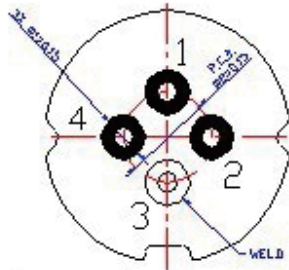
|   |   |                |               |
|---|---|----------------|---------------|
| <b>Features:</b> <ul style="list-style-type: none"> <li>● 1310nm</li> <li>● DFB Laser Diode</li> <li>● Built-in Monitor</li> <li>● 9um Fiber Core</li> <li>● 10mw output power</li> <li>● Isolation Optional</li> <li>● Coaxial/Receptacle package</li> </ul> |  |                |               |
| <b>Applications:</b> <ul style="list-style-type: none"> <li>● Test Equipments</li> <li>● Optical Bidi Module and Optical Receiver</li> <li>● Optical Transmitter of Analog Signal</li> <li>● Optical Transmitter of Data Signal</li> </ul>                    |   |                |               |
| <b>Specifications</b>   | <b>WSLP-1310-010m-9-DFB</b>   |                |               |
|   | <b>Min</b>  | <b>Type</b>    | <b>Max</b>    |
| Center Wavelength@25°C  | <b>1290nm</b>   | <b>1310nm</b>  | <b>1330nm</b> |
| Laser Type  | <b>DFB</b>  |                |               |
| Output Power  | ----  | <b>10mW</b>    | ----          |
| Fiber Core  | <b>9um SM Fiber</b>   |                |               |
| Threshold Current (Typ.) $I_{th}$   | ----  | <b>12mA</b>    | ----          |
| Operating Current   | ----  | <b>66mA</b>    | ----          |
| Operating Voltage   | ----  | <b>1.4V</b>    | ----          |
| Spectral Width(nm@20dB)   | ----  | <b>0.23</b>    | ----          |
| SMRS  | ----  | <b>35dB</b>    | ----          |
| Rs(ohms)  | ----  | <b>12.98</b>   | ----          |
| Monitor Current   | <b>0.1mA</b>  | ----           | ----          |
| PD Capacitance  | ----  | <b>10pF</b>    | <b>15pF</b>   |
| PD Dark Current   | ----  | ----           | <b>0.1uA</b>  |
| Slope   | ----  | <b>0.38W/A</b> | ----          |
| Package Style   | <b>Pigtail/Receptacle</b>   |                |               |
| Data Rate   | ----  | <b>2.0Gb/s</b> | ----          |
| Fiber Connector   | <b>FC/SC/ST/LC/MU</b>   |                |               |

Modulation Frequency upto 2GHz

**Coaxial Package View**



**Bottom View**



TYPE A  
PIN ASSIGNMENT:

|   |               |
|---|---------------|
| 1 | PD Cathode    |
| 2 | PD Anode      |
| 3 | LD Anode, GND |
| 4 | LD Cathode    |

**Electrically shorten LD module and store in non-extreme conditions.  
Suggest using the constant current power supply.**

