

## 1550nm 10mw DFB Coaxial Pigtailed Laser Diode with SMF

### 1550nm SM DFB fiber coupled LD

WSLP-1550-010m-9-DFB

Wavespectrum laser inc.

[www.wavespectrum-laser.com](http://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   |

#### Features:

- 1550nm
- DFB Laser Diode
- Built-in Monitor
- 9um Fiber Core
- 10mw output power
- Isolation Optional
- Coaxial/Receptacle package

#### Applications:

- Test Equipments
- Optical Bidi Module and Optical Receiver
- Optical Transmitter of Analog Signal
- Optical Transmitter of Data Signal



#### Specifications

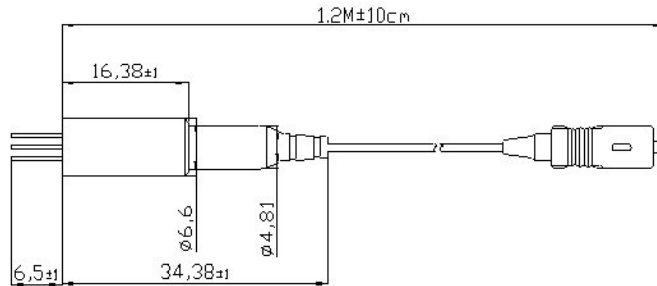
#### WSLP-1550-010m-9-DFB

|                                   | Min                | Type    | Max    |
|-----------------------------------|--------------------|---------|--------|
| Center Wavelength@25°C            | 1530nm             | 1550nm  | 1570nm |
| Laser Type                        | DFB                |         |        |
| Output Power                      | ----               | 10mW    | ----   |
| Fiber Core                        | 9um SM Fiber       |         |        |
| Threshold Current (Typ.) $I_{th}$ | ----               | 12mA    | ----   |
| Operating Current                 | ----               | 66mA    | ----   |
| Operating Voltage                 | ----               | 1.4V    | ----   |
| Spectral Width(nm@20dB)           | ----               | 0.23    | ----   |
| SMRS                              | ----               | 35dB    | ----   |
| Rs(ohms)                          | ----               | 12.98   | ----   |
| Monitor Current                   | 0.1mA              | ----    | ----   |
| PD Capacitance                    | ----               | 10pF    | 15pF   |
| PD Dark Current                   | ----               | ----    | 0.1uA  |
| Slope                             | ----               | 0.38W/A | ----   |
| Package Style                     | Pigtail/Receptacle |         |        |
| Data Rate                         | ----               | 2.0Gb/s | ----   |
| Fiber Connector                   | FC/SC/ST/LC/MU     |         |        |

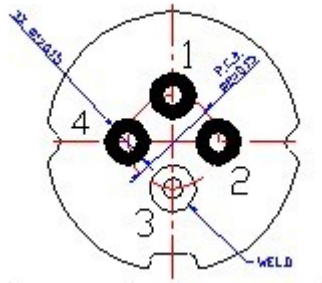
Modulation Frequency upto 2GHz



### 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.



Please contact us:

Website: [www.wavespectrum-laser.com](http://www.wavespectrum-laser.com) (for more detailed information)

Email: [info@wavespectrum-laser.com](mailto:info@wavespectrum-laser.com) (for inquiry about this product)

