

# 850nm 80mW~90mW SM Coaxial Pigtailed Laser Diode with 9um Fiber | Infrared Diode Laser Module

## 850nm 80mW Fiber Coupled LD with SMF-28 Fiber (9um Fiber Core) | Built-in Photodiode

WSLP-850-080m-9-PD

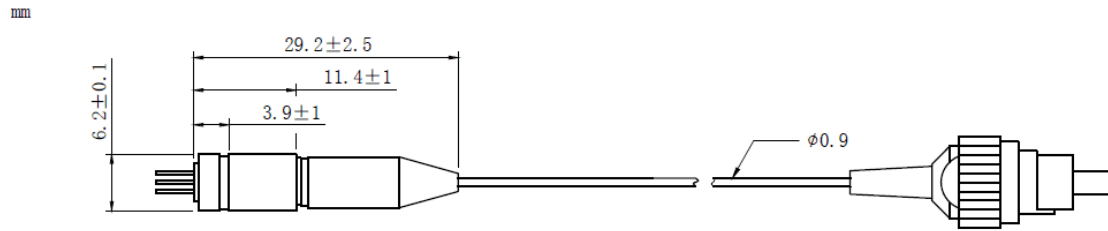
Wavespectrum Laser Group

www.wavespectrum-laser.com

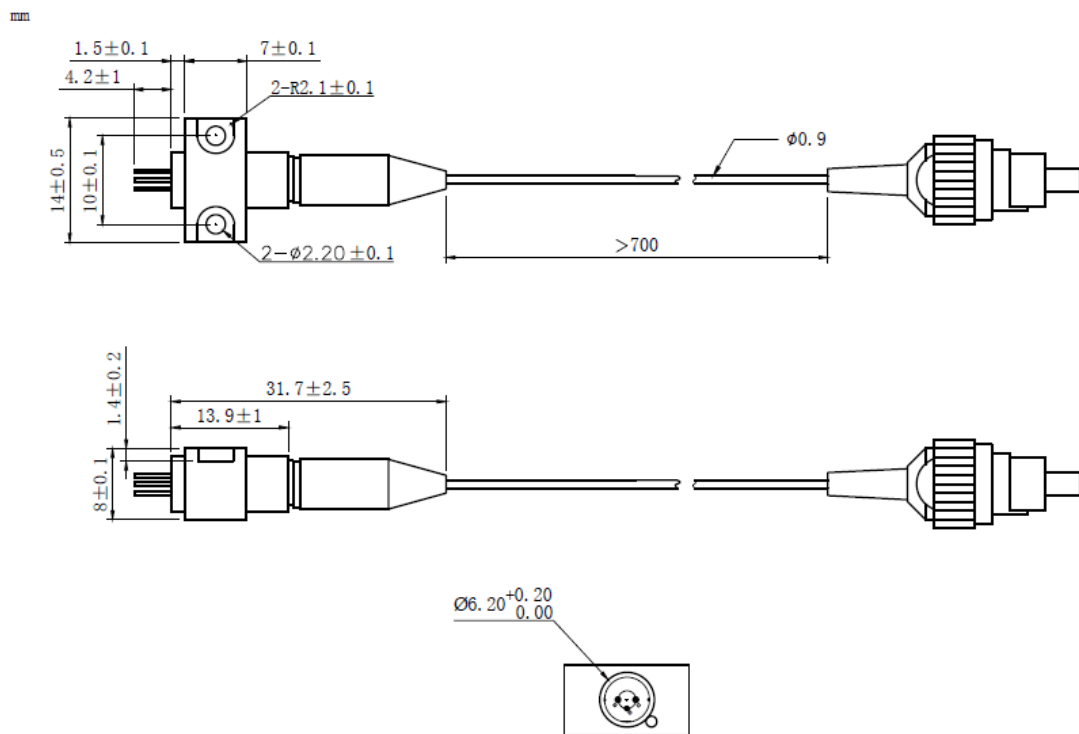
| 850nm Pigtailed Diode Laser                                                                                                                  |                                                                                    | 80mW/9um  | en.wavespectrum-laser.com.cn |      |
|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------|------------------------------|------|
| PARAMETER                                                                                                                                    | SYMBOL                                                                             | VALUE     |                              | UNIT |
| Reverse Voltage                                                                                                                              | V <sub>r</sub>                                                                     | 2.0       |                              | V    |
| Operating Temperature                                                                                                                        | T <sub>op</sub>                                                                    | -10 ~ +60 |                              | °C   |
| Storage Temperature                                                                                                                          | T <sub>stg</sub>                                                                   | -40 ~ +80 |                              | °C   |
| Lead soldering temperature (10 sec.)                                                                                                         | T <sub>is</sub>                                                                    | 260       |                              | °C   |
| Features:<br><ul style="list-style-type: none"><li>850nm</li><li>With 9um Fiber</li><li>Coaxial or B82 Package</li><li>Built-in PD</li></ul> |  |           |                              |      |
| Applications:<br><ul style="list-style-type: none"><li>Medical Laser Treatment</li><li>Sensor</li><li>Others</li></ul>                       |                                                                                    |           |                              |      |
| Specifications                                                                                                                               | WSLP-850-080m-9-PD                                                                 |           |                              |      |
|                                                                                                                                              | Min                                                                                | Type      | Max                          |      |
| Center Wavelength@25°C                                                                                                                       | 840nm                                                                              | 850nm     | 860nm                        |      |
| Recommended Operating Temperature                                                                                                            | 25°C                                                                               |           |                              |      |
| Output Power                                                                                                                                 | ----                                                                               | 80mW      | ----                         |      |
| Fiber Type                                                                                                                                   | SMF-28                                                                             |           |                              |      |
| Fiber Core                                                                                                                                   | 9um                                                                                |           |                              |      |
| Monitor Current                                                                                                                              | ----                                                                               | 0.3mA     | ----                         |      |
| PD Reverse Voltage                                                                                                                           | ----                                                                               | ----      | 30V                          |      |
| Fiber Connector                                                                                                                              | FC/SC/SMA905                                                                       |           |                              |      |
| Fiber Length                                                                                                                                 | ----                                                                               | 80cm      | 100cm                        |      |
| Threshold Current (Typ.)                                                                                                                     | ----                                                                               | 55mA      | 100mA                        |      |
| Operating Current (Typ.)                                                                                                                     | ----                                                                               | 220mA     | 240mA                        |      |
| Operating Voltage                                                                                                                            | ----                                                                               | 2.5V      | 3.0V                         |      |
| Package Style                                                                                                                                | Coaxial or B82                                                                     |           |                              |      |
| Photodiodes                                                                                                                                  | Built-in                                                                           |           |                              |      |



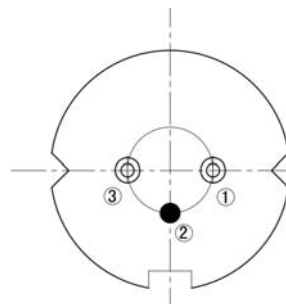
## Coaxial Package View: (Part Number: WSLP-850-080m-9-PD)



## B82 Package View: (Part Number: WSLP-850-080m-9-B-PD)



## PIN Bottom View:



|   |             |
|---|-------------|
| 1 | LD(-)       |
| 2 | LD(+)&PD(-) |
| 3 | PD(+)       |



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

