



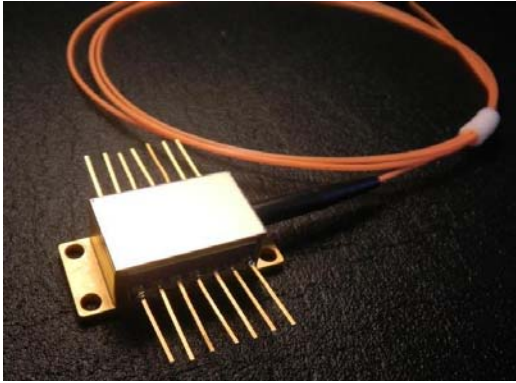
650nm 20mw SM Butterfly (BTF) Package Pigtailed Laser Diode with SMF | Built-in TEC cooler

650nm~660nm SM Fiber Coupled LD with 14-Pin package | Red Laser Module

WSLX-650-020m-4-T

Wavespectrum Laser Group

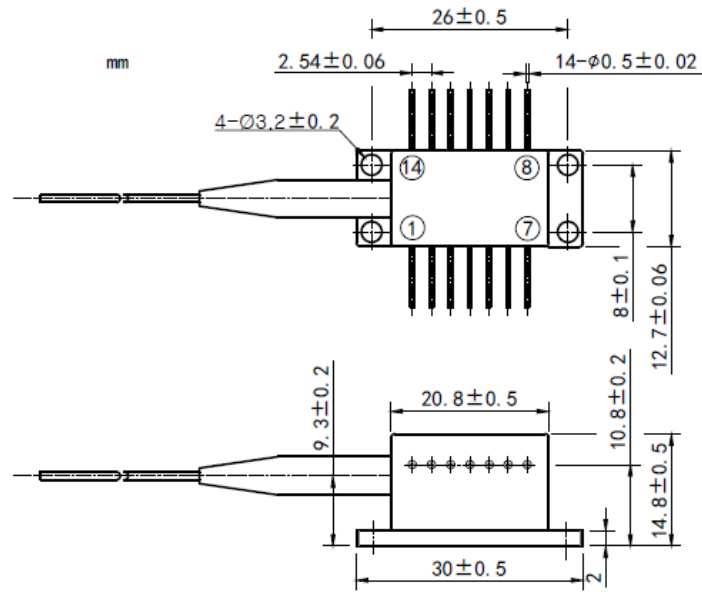
www.wavespectrum-laser.com

| 650nm Pigtailed Diode Laser  |                   | 20mW/SM Fiber   |       | Wavespectrum Laser Group |  |
|--|-------------------|---|-------|--------------------------|--|
| PARAMETER  | SYMBOL            | VALUE   | UNIT  |                          |  |
| Reverse Voltage  | $V_r$             | 2.0   | V     |                          |  |
| Operating Temperature  | $T_{op}$          | -10~+50   | °C    |                          |  |
| Storage Temperature  | $T_{stg}$         | -40~+85   | °C    |                          |  |
| Lead soldering temperature (5 sec.)  | $T_{is}$          | 250   | °C    |                          |  |
| <b>Features:</b> <ul style="list-style-type: none"> <li>650nm</li> <li>With SM Fiber</li> <li>14-Pin Package</li> <li>Built-in TEC Cooler</li> </ul> |                   |  |       |                          |  |
| <b>Applications:</b> <ul style="list-style-type: none"> <li>Medical laser treatment</li> <li>Sensor</li> <li>Others</li> </ul>                       |                   |   |       |                          |  |
| <b>Specifications</b>  |                   | <b>WSLX-650-020m-4-T</b>  |       |                          |  |
|  | Min               | Type  | Max   |                          |  |
| Center Wavelength@25°C   | 650nm             | 658nm   | 665nm |                          |  |
| Recommend Operating Temperature  | 25°C              |   |       |                          |  |
| Output Power   | ----              | 20mw  | ----  |                          |  |
| Fiber Type   | Single Mode Fiber |   |       |                          |  |
| Fiber Core   | 4um               |   |       |                          |  |
| Threshold Current (Typ.)   | ----              | 40mA  | 70mA  |                          |  |
| Operating Current (Typ.)   | ----              | 170mA   | 200mA |                          |  |
| Operating Voltage  | ----              | 2.6V  | 3.0V  |                          |  |
| TEC Max Current  | 1.8A              |   |       |                          |  |
| TEC Max Voltage  | 2.5V              |   |       |                          |  |
| Thermistor   | 10K               |   |       |                          |  |
| Fiber Connector  | FC/SMA905         |   |       |                          |  |
| Fiber Length   | 80cm              |   |       |                          |  |
| Package Style  | 14-Pin            |   |       |                          |  |

Wavespectrum Laser Group  
www.wavespectrum-laser.com  
sales@wavespectrum-laser.com



## 14-Pin Package View



### Pin Out:

| PIN | FUNCTION   | PIN | FUNCTION |
|-----|------------|-----|----------|
| 1   | TEC(+)     | 14  | TEC(-)   |
| 2   | THERMISTOR | 13  | CASE     |
| 3   | NC         | 12  | NC       |
| 4   | NC         | 11  | LD(-)    |
| 5   | THERMISTOR | 10  | LD(+)    |
| 6   | NC         | 9   | NC       |
| 7   | NC         | 8   | NC       |

Electrically shorten LD module and store in non-extreme conditions.

Suggest using the constant current power supply.

