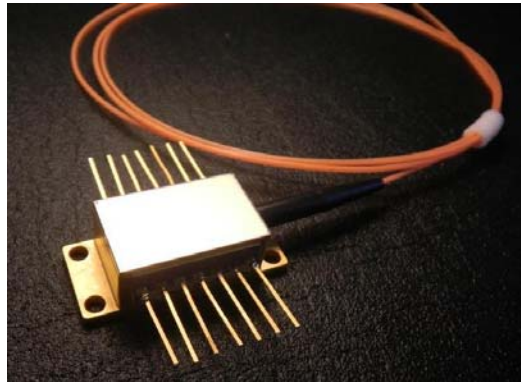
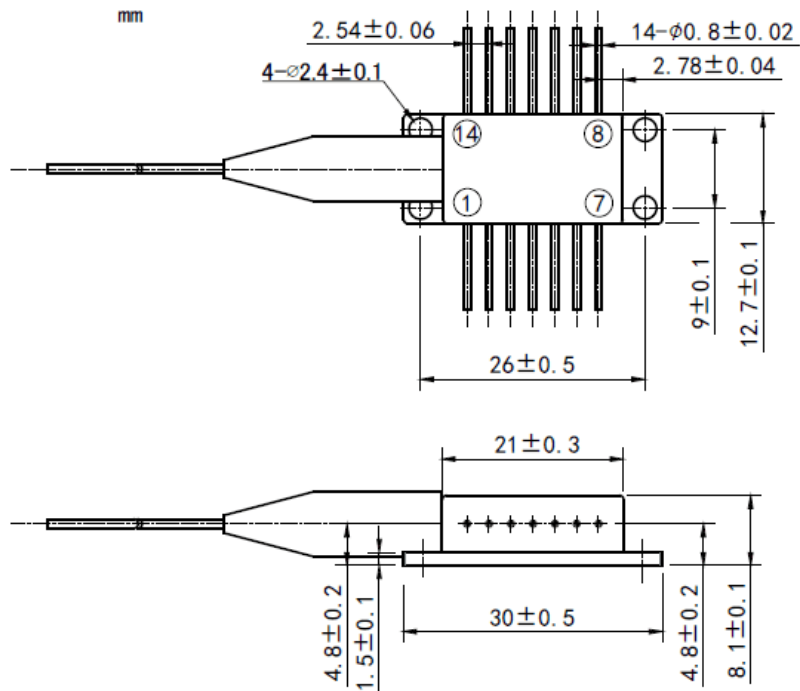


**660nm 1W Fiber Coupled Laser Diode with Butterfly (BTF) Package | Built-in TEC cooler | With Photodiode**  
**658nm~660nm 1W Pigtailed Diode Laser Module With 14-Pin Butterfly Package | Red LD Module**  
**WSLX-660-001-M-H14-T-PD**      **Wavespectrum Laser Group**      **www.wavespectrum-laser.com**

| 660nm Pigtailed Diode Laser                                                                                                                                                                                                             |  | 1W/MM Fiber                                                                                    |           | en.wavespectrum-laser.com.cn |      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------|-----------|------------------------------|------|
| PARAMETER                                                                                                                                                                                                                               |  | SYMBOL                                                                                         | VALUE     |                              | UNIT |
| MAX Reverse Voltage                                                                                                                                                                                                                     |  | V <sub>r</sub>                                                                                 | 2.0       |                              | V    |
| Operating Temperature                                                                                                                                                                                                                   |  | T <sub>op</sub>                                                                                | +10 ~ +30 |                              | °C   |
| Storage Temperature                                                                                                                                                                                                                     |  | T <sub>stg</sub>                                                                               | -20 ~ +80 |                              | °C   |
| Lead soldering temperature (10 sec.)                                                                                                                                                                                                    |  | T <sub>is</sub>                                                                                | 260       |                              | °C   |
| <div>Features:</div> <div><div><div></div><div>660nm</div></div><div><div></div><div>14-Pin Butterfly Package</div></div><div><div></div><div>Built-in TEC Cooler</div></div><div><div></div><div>Built-in Photodiode</div></div></div> |  | <div></div> |           |                              |      |
| <div>Applications:</div> <div><div><div></div><div>Medical Laser Treatment</div></div><div><div></div><div>Sensor</div></div><div><div></div><div>Others</div></div></div>                                                              |  |                                                                                                |           |                              |      |
| Specifications                                                                                                                                                                                                                          |  | WSLX-660-001-M-H14-T-PD                                                                        |           |                              |      |
|                                                                                                                                                                                                                                         |  | Min                                                                                            | Type      |                              | Max  |
| Center Wavelength@25℃                                                                                                                                                                                                                   |  | 660nm±10nm                                                                                     |           |                              |      |
| Output Power                                                                                                                                                                                                                            |  | ----                                                                                           | 1W        |                              | ---- |
| Spectral Width (FWHM)                                                                                                                                                                                                                   |  | ----                                                                                           | 3nm       |                              | ---- |
| Recommended Operating Temperature                                                                                                                                                                                                       |  | 25℃                                                                                            |           |                              |      |
| Temperature Coefficient of Wavelength                                                                                                                                                                                                   |  | 0.2nm / °C                                                                                     |           |                              |      |
| Threshold Current (Typ.)                                                                                                                                                                                                                |  | ----                                                                                           | 0.5A      |                              | 1.0A |
| Operating Current (Typ.)                                                                                                                                                                                                                |  | ----                                                                                           | 1.6A      |                              | 1.8A |
| Operating Voltage                                                                                                                                                                                                                       |  | ----                                                                                           | 2.2V      |                              | 2.5V |
| TEC Max Current                                                                                                                                                                                                                         |  | 2A                                                                                             |           |                              |      |
| TEC Max Voltage                                                                                                                                                                                                                         |  | 8V                                                                                             |           |                              |      |
| Thermistor                                                                                                                                                                                                                              |  | 10K                                                                                            |           |                              |      |
| Fiber Core Diameter                                                                                                                                                                                                                     |  | 105um                                                                                          |           |                              |      |
| Fiber Numerical Aperture                                                                                                                                                                                                                |  | 0.22                                                                                           |           |                              |      |
| Fiber Connector                                                                                                                                                                                                                         |  | FC/SMA905                                                                                      |           |                              |      |
| Fiber Length                                                                                                                                                                                                                            |  | >80cm                                                                                          |           |                              |      |
| Package Style                                                                                                                                                                                                                           |  | 14-Pin                                                                                         |           |                              |      |



# 14-Pin Package View:



## Pin Out:

| PIN | FUNCTION   | PIN | FUNCTION |
|-----|------------|-----|----------|
| 1   | TEC(+)     | 14  | TEC(-)   |
| 2   | THERMISTOR | 13  | CASE     |
| 3   | PD(+)      | 12  | NC       |
| 4   | PD(-)      | 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.

