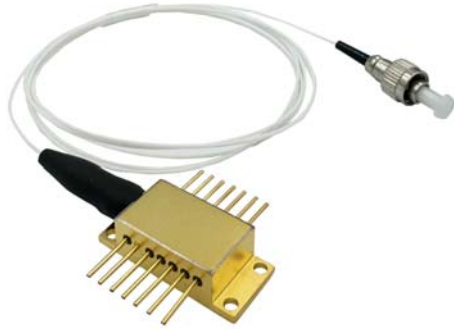


680nm 700mW 50um Fiber Coupled Laser Diode with Butterfly (BTF) Package | Built-in TEC cooler | With PD  
 680nm~685nm 700mW Pigtailed Diode Laser Module With 14-Pin Butterfly Package | Infrared LD Module  
 WSLX-680-700m-50M-H14-T-PD      Wavespectrum Laser Group      www.wavespectrum-laser.com

|                             |               |                              |
|-----------------------------|---------------|------------------------------|
| 680nm Pigtailed Diode Laser | 0.7W/MM Fiber | en.wavespectrum-laser.com.cn |
|-----------------------------|---------------|------------------------------|

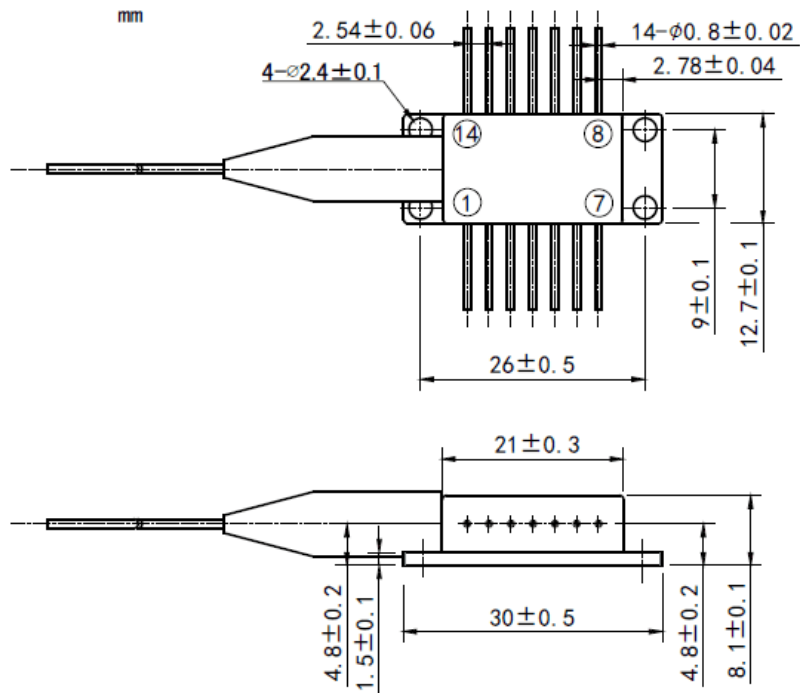
| PARAMETER                            | SYMBOL    | VALUE     | UNIT |
|--------------------------------------|-----------|-----------|------|
| MAX Reverse Voltage                  | $V_r$     | 2.0       | V    |
| Operating Temperature                | $T_{op}$  | +10 ~ +30 | °C   |
| Storage Temperature                  | $T_{stg}$ | -20 ~ +80 | °C   |
| Lead soldering temperature (10 sec.) | $T_{is}$  | 260       | °C   |

|                                                                                                                                                                      |                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>Features:</b> <ul style="list-style-type: none"> <li>680nm</li> <li>14-Pin Butterfly Package</li> <li>Built-in TEC Cooler</li> <li>Built-in Photodiode</li> </ul> |  |
| <b>Applications:</b> <ul style="list-style-type: none"> <li>Medical Laser Treatment</li> <li>Sensor</li> <li>Others</li> </ul>                                       |                                                                                    |

| Specifications                        | WSLX-680-700m-50M-H14-T-PD |       |      |
|---------------------------------------|----------------------------|-------|------|
|                                       | Min                        | Type  | Max  |
| Center Wavelength@25°C                | 680nm±10nm                 |       |      |
| Output Power                          | ----                       | 700mW | ---- |
| Spectral Width (FWHM)                 | ----                       | 2nm   | ---- |
| Recommended Operating Temperature     | 25°C                       |       |      |
| Temperature Coefficient of Wavelength | 0.2nm / °C                 |       |      |
| Threshold Current (Typ.)              | 0.4A                       |       |      |
| Operating Current (Typ.)              | 1.1A                       |       |      |
| Operating Voltage                     | 2.4V                       |       |      |
| TEC Max Current                       | 2A                         |       |      |
| TEC Max Voltage                       | 8V                         |       |      |
| Thermistor                            | 10K                        |       |      |
| Fiber Core Diameter                   | 50um                       |       |      |
| Fiber Numerical Aperture              | 0.22                       |       |      |
| Fiber Connector                       | FC/SMA905                  |       |      |
| Fiber Length                          | >80cm                      |       |      |
| Package Style                         | 14-Pin-01                  |       |      |



# 14-Pin-01 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.

