

685nm 800mW Fiber Coupled Laser Diode with Butterfly (BTF) Package | Built-in TEC cooler | With Photodiode  
 680nm~685nm 800mW Pigtailed Diode Laser Module With 14-Pin Butterfly Package | Infrared LD Module  
 WSLX-685-800m-M-H14-T-PD      Wavespectrum Laser Group      www.wavespectrum-laser.com

685nm Pigtailed Diode Laser      0.8W/MM Fiber      en.wavespectrum-laser.com.cn

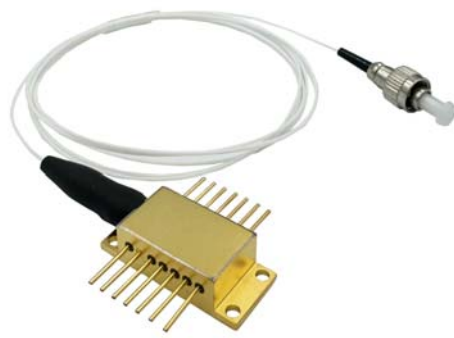
| PARAMETER                            | SYMBOL    | VALUE     | UNIT |
|--------------------------------------|-----------|-----------|------|
| MAX Reverse Voltage                  | $V_r$     | 2.0       | V    |
| Operating Temperature                | $T_{op}$  | +10 ~ +30 | °C   |
| Storage Temperature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

**Features:**

- 685nm
- 14-Pin Butterfly Package
- Built-in TEC Cooler
- Built-in Photodiode

**Applications:**

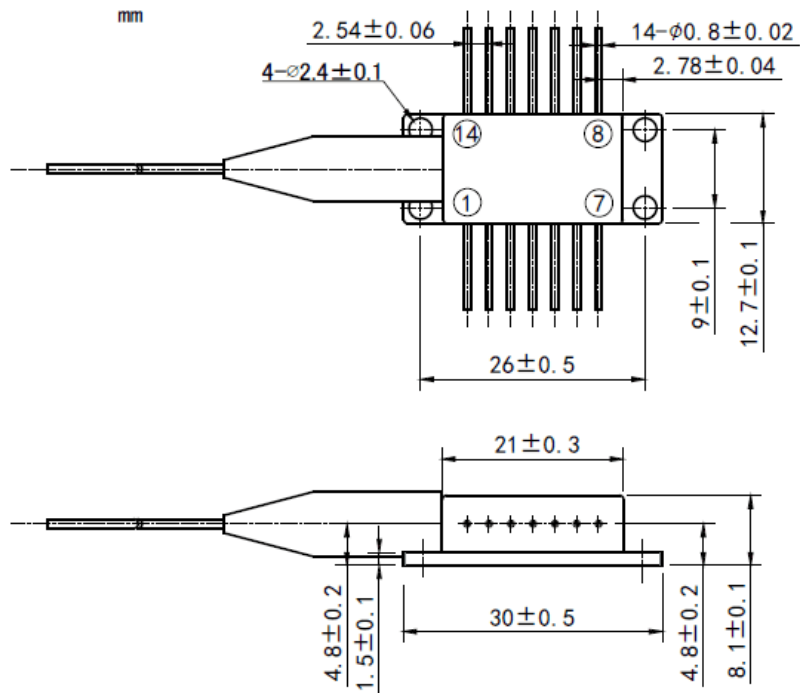
- Medical Laser Treatment
- Sensor
- Others



| Specifications                        | WSLX-685-800m-M-H14-T-PD |       |      |
|---------------------------------------|--------------------------|-------|------|
|                                       | Min                      | Type  | Max  |
| Center Wavelength@25°C                | 685nm±10nm               |       |      |
| Output Power                          | 700mW                    | 800mW | ---- |
| 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                   | 105um                    |       |      |
| 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.

