

**445nm~450nm 40mW Single Mode Pigtailed Diode Laser With TEC Cooler | Built-in Photodiode Optional**  
**445nm 40mW |8-Pin HHL Package| 3um Single mode Fiber| Blue Diode Laser | Built-in TEC Cooling**  
**WSLX-445-040m-4-H8-T**                      **Wavespectrum Laser Group**                      **en.wavespectrum-laser.com.cn**

| PARAMETER                            | SYMBOL    | VALUE     | UNIT |
|--------------------------------------|-----------|-----------|------|
| 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:**

- 450nm
- 8-Pin Package
- Built-in TEC Cooling
- Built-in PD Optional

**Applications:**

- Medical Laser Treatment
- Others



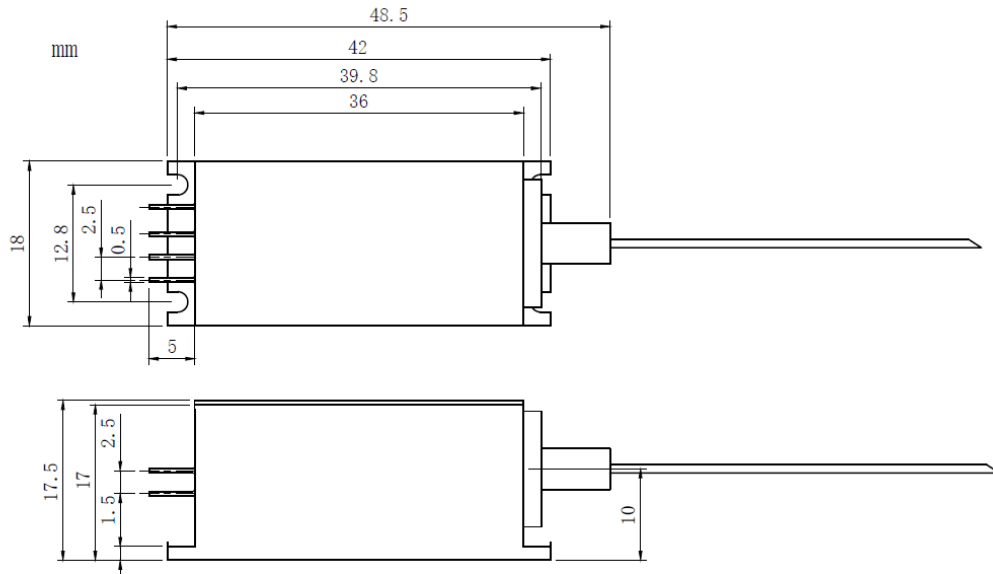
**Specifications**

**WSLX-445-040m-4-H8-T**

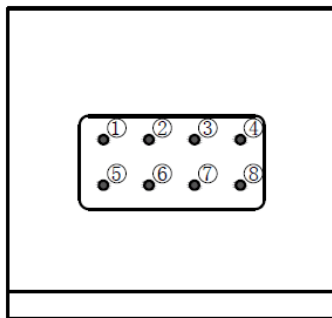
|                                 | Min.              | Type  | Max.  |
|---------------------------------|-------------------|-------|-------|
| Center Wavelength@25°C          | 440nm             | 450nm | 460nm |
| Spectral Width (FWHM)           | ----              | 2nm   | ----  |
| Output Power                    | ----              | 40mW  | ----  |
| Recommend Operating Temperature | 25 °C             |       |       |
| Threshold Current (Typ.)        | ----              | 20mA  | 55mA  |
| Operating Current (Typ.)        | ----              | 140mA | 160mA |
| Operating Voltage               | ----              | 6.0V  | 7.0V  |
| Monitor Current                 | ----              | ----  | ----  |
| TEC Max Current                 | 1.3A              |       |       |
| TEC Max Voltage                 | 4.0V              |       |       |
| Thermistor                      | 10K               |       |       |
| Fiber Type                      | Single Mode Fiber |       |       |
| Fiber Core                      | 3um               |       |       |
| Fiber Length                    | >80cm             |       |       |
| Connector Type                  | FC/SC/SMA905      |       |       |
| Package Style                   | 8-PIN             |       |       |



**8-Pin Package View:**



**Pin Out:**



| PIN | FUNCTION | PIN | FUNCTION |
|-----|----------|-----|----------|
| 1   | RT       | 5   | NC       |
| 2   | LD (-)   | 6   | NC       |
| 3   | LD (+)   | 7   | TEC (-)  |
| 4   | RT       | 8   | TEC (+)  |

**Wavespectrum offer Customized 445nm Fiber Coupled LD.**

- Customized Output Power
- Customized Fiber Core
- Dual-Wavelength or Tri-Wavelength Module Optional  
(such as 3W@445nm+ 10W@980nm)

Contact us with [info@wavespectrum-laser.com](mailto:info@wavespectrum-laser.com)

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

Suggest using the constant current power supply.



Wavespectrum Laser Group  
[www.wavespectrum-laser.com](http://www.wavespectrum-laser.com)  
[sales@wavespectrum-laser.com](mailto:sales@wavespectrum-laser.com)

