

**445nm~450nm 15mW Single Mode Fiber Coupled Diode Laser With Photodiode (PD) | Built-in TEC cooler**
**445nm 15mW~20mW |HHL Package| SM Fiber| Blue Diode Laser | Built-in TEC Cooling | High Stability**
**WSLX-445-015m-4-H8-T-PD**
**Wavespectrum Laser Group**
**www.wavespectrum-laser.com**

| 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
- 3um SM Fiber
- Built-in TEC Cooling
- Built-in Photodiode

**Applications:**

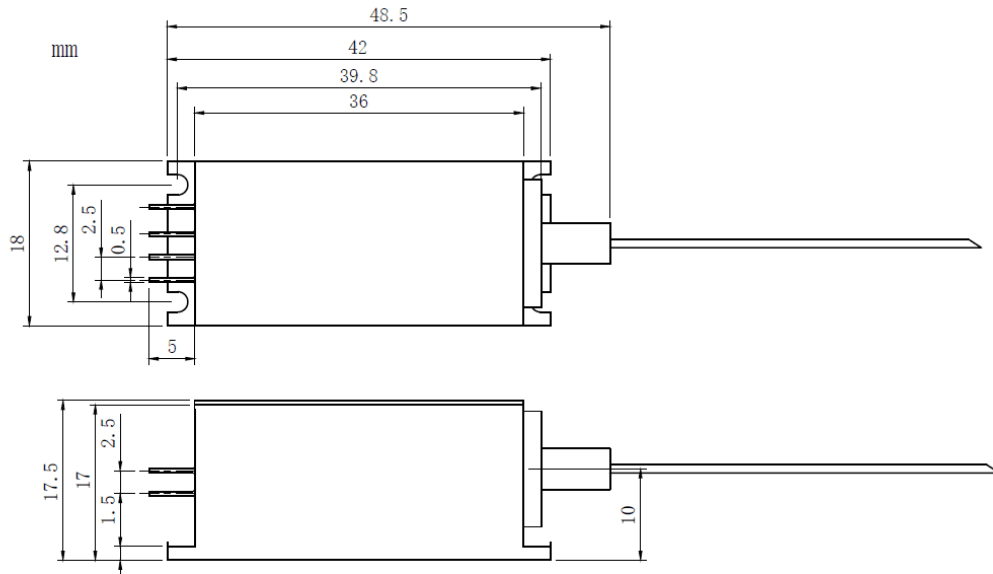
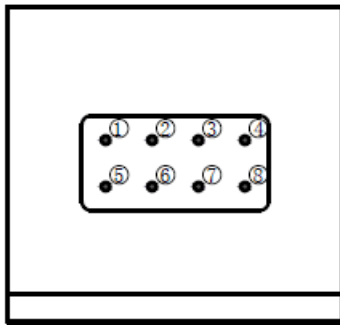
- Medical Laser Treatment
- Others


**Specifications**
**WSLX-445-015m-4-H8-T-PD**

|                                 | Min.              | Type  | Max.  |
|---------------------------------|-------------------|-------|-------|
| Center Wavelength@25°C          | 440nm             | 450nm | 460nm |
| Spectral Width (FWHM)           | ----              | 2nm   | ----  |
| Output Power                    | ----              | 15mW  | ----  |
| Recommend Operating Temperature | 25 °C             |       |       |
| Threshold Current (Typ.)        | ----              | 20mA  | 60mA  |
| Operating Current (Typ.)        | ----              | 120mA | 140mA |
| Operating Voltage               | ----              | 6.0V  | 7.0V  |
| 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             |       |       |
| Photodiode                      | Built-in          |       |       |

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**8-Pin Package View:**

**Pin Out:**


| PIN | FUNCTION | PIN | FUNCTION |
|-----|----------|-----|----------|
| 1   | RT       | 5   | PD(+)    |
| 2   | LD(-)    | 6   | PD(-)    |
| 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 2W@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  
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