

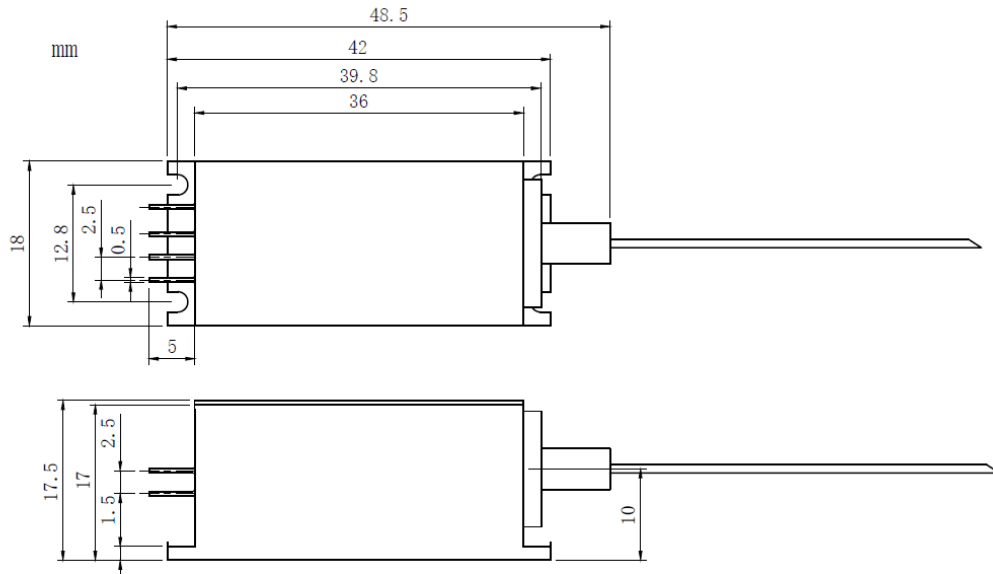
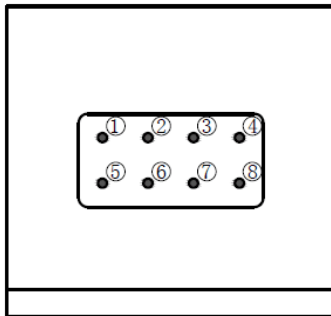
**445nm~450nm 50mW Single Mode Pigtailed Diode Laser With TEC Cooler | Built-in Photodiode Optional**  
**445nm 50mW |8-Pin HHL Package| 3um Single mode Fiber| Blue Diode Laser | Built-in TEC Cooling**  
**WSLX-445-050m-4-H8-T**                      **Wavespectrum Laser Group**                      **en.wavespectrum-laser.com.cn**

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

<b>Features:</b> <ul style="list-style-type: none"> <li><span style="color: yellow;">●</span> 450nm</li> <li><span style="color: yellow;">●</span> 8-Pin Package</li> <li><span style="color: yellow;">●</span> Built-in TEC Cooling</li> <li><span style="color: yellow;">●</span> Built-in PD Optional</li> </ul>	
<b>Applications:</b> <ul style="list-style-type: none"> <li><span style="color: yellow;">●</span> Medical Laser Treatment</li> <li><span style="color: yellow;">●</span> Others</li> </ul>	

Specifications	WSLX-445-050m-4-H8-T		
	Min.	Type	Max.
Center Wavelength@25°C	440nm	450nm	460nm
Spectral Width (FWHM)	----	2nm	----
Output Power	----	50mW	----
Recommend Operating Temperature	25 °C		
Threshold Current (Typ.)	----	25mA	60mA
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)

