

520nm~525nm Collimated Laser Diode| High Power Green LD| 1.5W Output Power| Collimation Beam

520nm 1.5W LD| Small Compact Package| Green Diode Laser

WSLD-520-1500m-K

Wavespectrum Laser Group

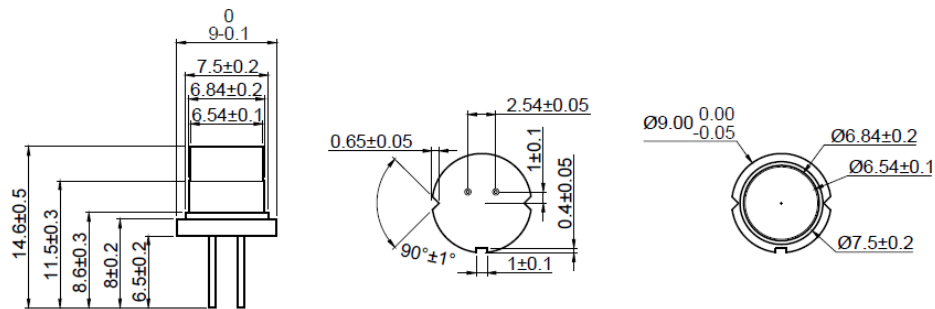
www.wavespectrum-laser.com

| 520nm Collimated Laser Diode                                                                                                                                                                                                                                                                                                                                 |                     | 1.5W/TO5         |                                                                                               | Wavespectrum Laser Group |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------|-----------------------------------------------------------------------------------------------|--------------------------|-------|
| PARAMETER                                                                                                                                                                                                                                                                                                                                                    |                     | SYMBOL           | VALUE                                                                                         |                          | UNIT  |
| Reverse Voltage                                                                                                                                                                                                                                                                                                                                              |                     | V <sub>r</sub>   | 2.0                                                                                           |                          | V     |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                        |                     | T <sub>op</sub>  | 0 ~ +60                                                                                       |                          | °C    |
| Storage Temperature                                                                                                                                                                                                                                                                                                                                          |                     | T <sub>stg</sub> | -40 ~ +85                                                                                     |                          | °C    |
| Lead soldering temperature (10 sec.)                                                                                                                                                                                                                                                                                                                         |                     | T <sub>is</sub>  | 260                                                                                           |                          | °C    |
| <div>Features:</div> <div><div><div></div><div>520nm</div></div><div><div></div><div>Collimated Laser Beam</div></div><div><div></div><div>Small Compact Package</div></div><div><div></div><div>Excellent Beam Quality</div></div><div><div></div><div>Built-in PD Optional</div></div><div><div></div><div>Built-in TEC Cooling Optional</div></div></div> |                     |                  | <div></div> |                          |       |
| Specifications                                                                                                                                                                                                                                                                                                                                               |                     |                  | WSLD-520-1500m-K                                                                              |                          |       |
|                                                                                                                                                                                                                                                                                                                                                              |                     |                  | Min                                                                                           | Type                     | Max   |
| Center Wavelength@25°C                                                                                                                                                                                                                                                                                                                                       |                     |                  | 510nm                                                                                         | 520nm                    | 535nm |
| Output Power (CW Mode)                                                                                                                                                                                                                                                                                                                                       |                     |                  | 1.3W                                                                                          | 1.5W                     | ----  |
| Spatial Mode                                                                                                                                                                                                                                                                                                                                                 |                     |                  | Multi-mode                                                                                    |                          |       |
| Lens Type                                                                                                                                                                                                                                                                                                                                                    |                     |                  | Aspheric Lens (with AR Coating)                                                               |                          |       |
| Beam Shape                                                                                                                                                                                                                                                                                                                                                   |                     |                  | Elliptical                                                                                    |                          |       |
| Beam Divergence (Full Angle)                                                                                                                                                                                                                                                                                                                                 | Parallel （θ //）     |                  | 0.2°                                                                                          | 0.4°                     | 0.6°  |
|                                                                                                                                                                                                                                                                                                                                                              | Perpendicular （θ ⊥） |                  | -1.0°                                                                                         | 0°                       | 1.0°  |
| Recommend Operating Temperature                                                                                                                                                                                                                                                                                                                              |                     |                  | 25 °C                                                                                         |                          |       |
| Threshold Current (Typ.)                                                                                                                                                                                                                                                                                                                                     |                     |                  | ----                                                                                          | 0.2A                     | 0.5A  |
| Operating Current (Typ.)                                                                                                                                                                                                                                                                                                                                     |                     |                  | ----                                                                                          | 2.1A                     | 2.3A  |
| Operating Voltage                                                                                                                                                                                                                                                                                                                                            |                     |                  |                                                                                               | 5.0V                     | 6.0V  |
| Package                                                                                                                                                                                                                                                                                                                                                      |                     |                  | TO5(9mm)                                                                                      |                          |       |

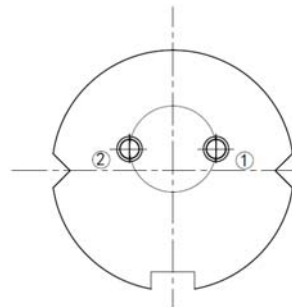


## Package Drawing:

mm



## PIN Bottom View:



|   |       |
|---|-------|
| 1 | LD(+) |
| 2 | LD(-) |

Electrically shorten LD module and store in non-extreme conditions.  
Suggest using the constant current power supply.

