

## 520nm 10mW SM Coaxial Fiber Coupled Laser Diode with SMF| Built-in Photodiode

515nm~520nm~530nm SM Pigtailed Green LD with Single Mode Fiber (SM Fiber) | With PD

WSLP-520-010m-4-PD

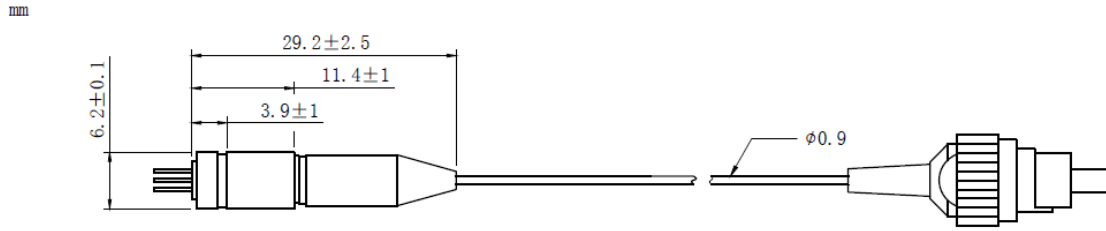
Wavespectrum Laser Group

www.wavespectrum-laser.com

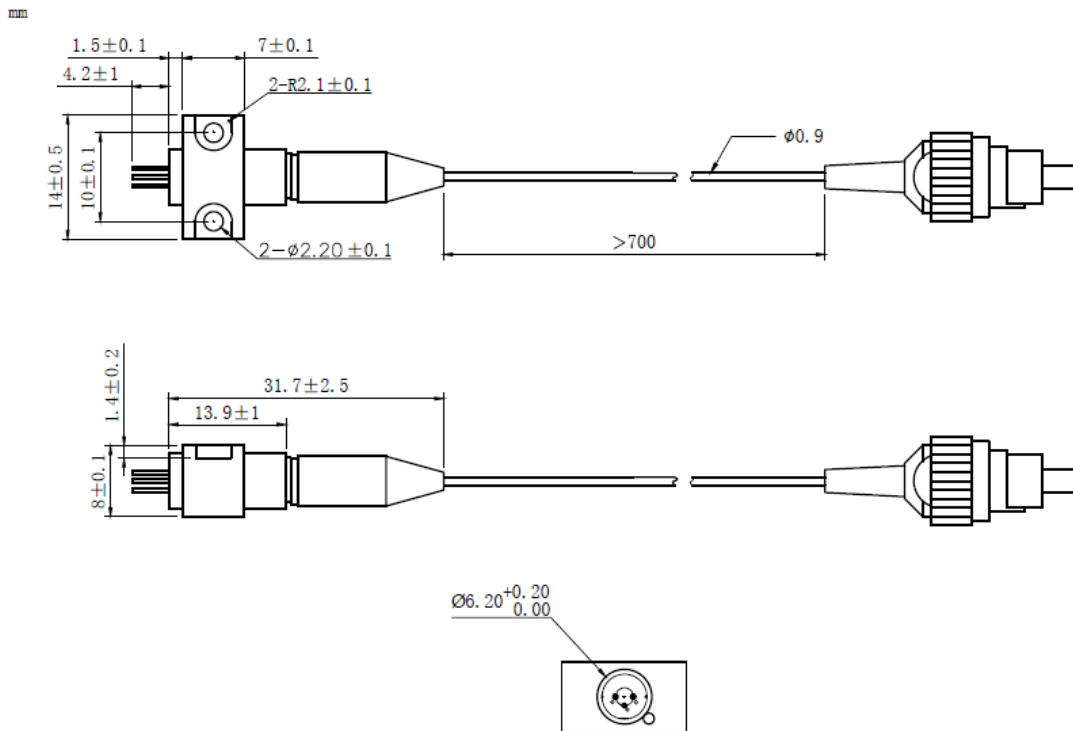
| 520nm Pigtailed Diode Laser                                                                                                                                                                                                                      |  | 10mW/SMF                                                                                      |           | en.wavespectrum-laser.com.cn |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------|-----------|------------------------------|-------|
| PARAMETER                                                                                                                                                                                                                                        |  | SYMBOL                                                                                        | VALUE     |                              | UNIT  |
| Reverse Voltage                                                                                                                                                                                                                                  |  | $V_r$                                                                                         | 2.0       |                              | V     |
| Operating Temperature                                                                                                                                                                                                                            |  | $T_{op}$                                                                                      | -20 ~ +60 |                              | °C    |
| Storage Temperature                                                                                                                                                                                                                              |  | $T_{stg}$                                                                                     | -40 ~ +85 |                              | °C    |
| Lead soldering temperature (10 sec.)                                                                                                                                                                                                             |  | $T_{is}$                                                                                      | 260       |                              | °C    |
| <div>Features:</div> <div><div><div></div><div>520nm Green Diode Laser</div></div><div><div></div><div>3um SM Fiber</div></div><div><div></div><div>Coaxial or B82 Package</div></div><div><div></div><div>Built-in Photodiode</div></div></div> |  | <div></div> |           |                              |       |
| <div>Applications:</div> <div><div><div></div><div>Medical Laser Treatment</div></div><div><div></div><div>Others</div></div></div>                                                                                                              |  |                                                                                               |           |                              |       |
| Specifications                                                                                                                                                                                                                                   |  | WSLP-520-010m-4-PD                                                                            |           |                              |       |
|                                                                                                                                                                                                                                                  |  | Min                                                                                           | Type      |                              | Max   |
| Center Wavelength@25°C                                                                                                                                                                                                                           |  | 520nm±10nm                                                                                    |           |                              |       |
| Spectral Width (FWHM)                                                                                                                                                                                                                            |  | ----                                                                                          | 2.0nm     |                              | ----  |
| Output Power                                                                                                                                                                                                                                     |  | ----                                                                                          | 10mW      |                              | ----  |
| Fiber Type                                                                                                                                                                                                                                       |  | Single Mode Fiber                                                                             |           |                              |       |
| Fiber Core                                                                                                                                                                                                                                       |  | 3um                                                                                           |           |                              |       |
| PD Current                                                                                                                                                                                                                                       |  | 100uA                                                                                         |           |                              |       |
| Recommend Operating Temperature                                                                                                                                                                                                                  |  | 25°C                                                                                          |           |                              |       |
| Fiber Connector                                                                                                                                                                                                                                  |  | FC/SC/SMA905                                                                                  |           |                              |       |
| Fiber Length                                                                                                                                                                                                                                     |  | >80cm                                                                                         |           |                              |       |
| Threshold Current                                                                                                                                                                                                                                |  | ----                                                                                          | 40mA      |                              | 85mA  |
| Operating Current                                                                                                                                                                                                                                |  | ----                                                                                          | 180mA     |                              | 200mA |
| Operating Voltage                                                                                                                                                                                                                                |  | ----                                                                                          | 7.5V      |                              | 8.0V  |
| Package Style                                                                                                                                                                                                                                    |  | Coaxial or B82                                                                                |           |                              |       |
| Photodiode                                                                                                                                                                                                                                       |  | Built-in                                                                                      |           |                              |       |



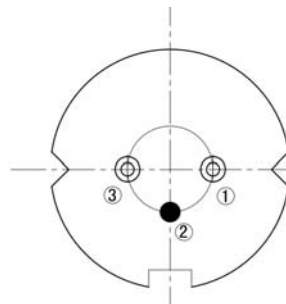
## Coaxial Package View: (Part Number: WSLP-520-010m-4-PD)



## B82 Package View: (Part Number: WSLP-520-010m-4-B-PD)



## PIN Bottom View:



|   |             |
|---|-------------|
| 1 | LD(-)       |
| 2 | LD(+)&PD(-) |
| 3 | PD(+)       |



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

