

# 1550nm 20mW DFB SM Laser Diodes | TO18 5.6mm LD | With Flat Window

## 1550nm 20mW Single Mode LD | Built-in PD

WSLD-1550-020m-1-PD-F

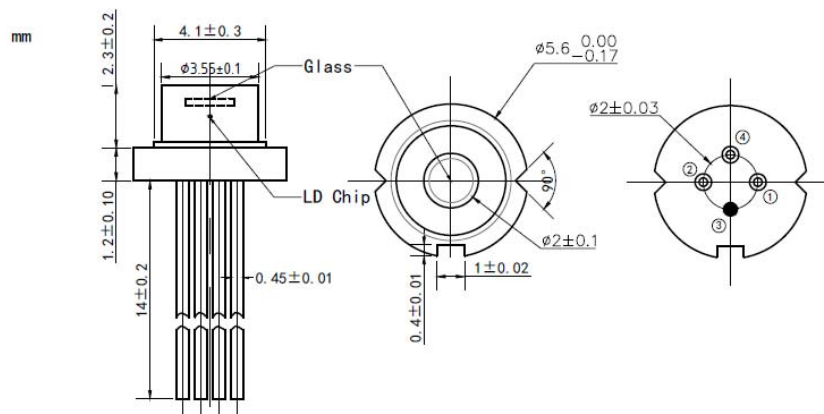
Wavespectrum laser Group

[www.wavespectrum-laser.com](http://www.wavespectrum-laser.com)

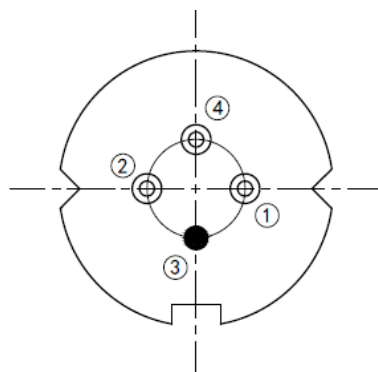
| 1550nm Laser Diode                                                                                                                                                                                                                                           |  | 20mW             | Single mode /DFB                                                                               | en.wavespectrum-laser.com.cn        |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------|------------------------------------------------------------------------------------------------|-------------------------------------|-------|
| Reverse Voltage                                                                                                                                                                                                                                              |  | V <sub>r</sub>   | 2.0                                                                                            |                                     | V     |
| Operating Temperature                                                                                                                                                                                                                                        |  | T <sub>op</sub>  | -10 ~ +50                                                                                      |                                     | °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>1550nm</div></div><div><div></div><div>Single Mode Beam</div></div><div><div></div><div>DFB LD</div></div><div><div></div><div>With Flat Window</div></div><div><div></div><div>Built-in PD</div></div></div> |  |                  | <div></div> |                                     |       |
| <div>Applications:</div> <div><div><div></div><div>Optical Fiber Communication</div></div><div><div></div><div>Free-space Optical Communication</div></div></div>                                                                                            |  |                  |                                                                                                |                                     |       |
| Specifications                                                                                                                                                                                                                                               |  |                  | WSLD-1550-020m-1-PD-F                                                                          |                                     |       |
|                                                                                                                                                                                                                                                              |  |                  | Min                                                                                            | Type                                | Max   |
| Center Wavelength@25°C                                                                                                                                                                                                                                       |  |                  | 1550nm±10nm                                                                                    |                                     |       |
| Output Power                                                                                                                                                                                                                                                 |  |                  | ----                                                                                           | 20mW                                | ----  |
| Spectral Width (FWHM)                                                                                                                                                                                                                                        |  |                  | ----                                                                                           | ----                                | 2nm   |
| Laser Type                                                                                                                                                                                                                                                   |  |                  | DFB                                                                                            |                                     |       |
| Recommend Operating Temperature                                                                                                                                                                                                                              |  |                  | 25°C                                                                                           |                                     |       |
| Beam Divergence (FWHM)                                                                                                                                                                                                                                       |  |                  | ----                                                                                           | 35° <sub>⊥</sub> x 25° <sub>∥</sub> | ----  |
| Reverse Current (PD) I <sub>rp</sub>                                                                                                                                                                                                                         |  |                  | ----                                                                                           | 0.5mA                               | ----  |
| Reverse Voltage (PD) V <sub>rp</sub>                                                                                                                                                                                                                         |  |                  | ----                                                                                           | ----                                | 15V   |
| Threshold Current (Typ.)                                                                                                                                                                                                                                     |  |                  | ----                                                                                           | 5mA                                 | 15mA  |
| Operating Current (Typ.)                                                                                                                                                                                                                                     |  |                  | ----                                                                                           | 90mA                                | 100mA |
| Operating Voltage                                                                                                                                                                                                                                            |  |                  | ----                                                                                           | 1.4V                                | 1.7V  |
| Package Style                                                                                                                                                                                                                                                |  |                  | TO18                                                                                           |                                     |       |
| Window Type                                                                                                                                                                                                                                                  |  |                  | Flat Window                                                                                    |                                     |       |
|                                                                                                                                                                                                                                                              |  |                  |                                                                                                |                                     |       |



## Package View:

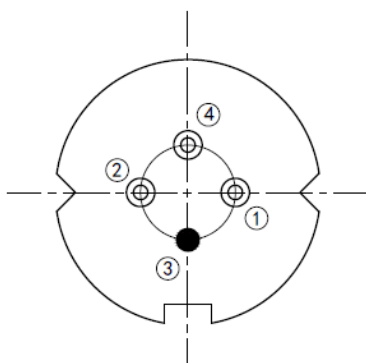


## PIN Bottom View (A-Type):



|       |              |
|-------|--------------|
| PIN 1 | PD (+)       |
| PIN 2 | LD (-)       |
| PIN 3 | LD (+), CASE |
| PIN 4 | PD (-)       |

## PIN Bottom View (B-Type):



|       |               |
|-------|---------------|
| PIN 1 | LD (+) PD (-) |
| PIN 2 | LD (-)        |
| PIN 3 | CASE          |
| PIN 4 | PD (+)        |

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

