



# LDM-915-50

## Typical Device Performance (25°C)

| Optical                           | Unit    | Typical Value |
|-----------------------------------|---------|---------------|
| CW Output Power                   | W       | 50            |
| Center Wavelength                 | nm      | 915, ±10      |
| Spectral Width (90% of Power)     | nm      | 3             |
| Wavelength Shift with Temperature | nm / °C | 0.3           |
| <b>Electrical</b>                 |         |               |
| Threshold Current                 | A       | 1.4           |
| Operating Current                 | A       | 11.0          |
| Operating Voltage                 | V       | 9.0           |
| Slope Efficiency                  | W / A   | 5.2           |
| Power Conversion Efficiency       | %       | 50            |
| <b>Aiming Laser*</b>              |         |               |
| CW Output Power                   | mW      | 2.0           |
| Center Wavelength                 | nm      | 650±10        |
| Operating Current                 | mA      | <30           |
| Operating Voltage                 | V       | 5.0           |
| <b>Fiber**</b>                    |         |               |
| Fiber Core Diameter               | μm      | 200           |
| Fiber Cladding Diameter           | μm      | 220           |
| Fiber Buffer Diameter             | μm      | 500           |
| Numerical Aperture                | -       | 0.22          |
| Fiber Length                      | m       | 1.0           |
| Fiber Connector                   | -       | SMA905        |

\*Optional built-in constant power circuit, 5V power supply needed.

Optional constant voltage green aiming beam.

\*\*Customized fiber and connector available.

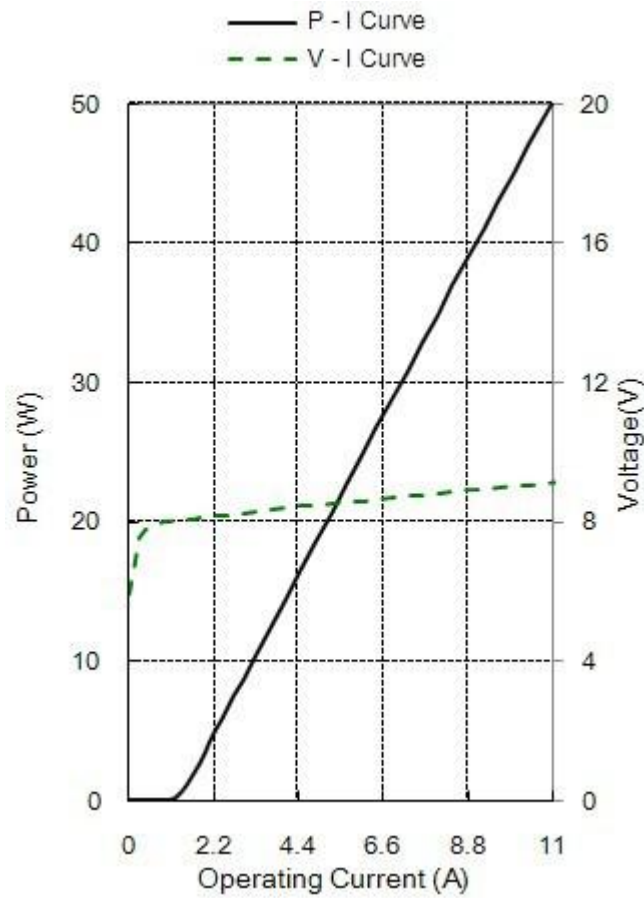
## Absolute Ratings

|                                     | Unit | Min | Max |
|-------------------------------------|------|-----|-----|
| Operating Temperature               | °C   | 10  | 40  |
| Operating Relative Humidity         | %    | -   | 75  |
| Storage Temperature                 | °C   | -20 | 80  |
| Storage Relative Humidity           | %    | -   | 90  |
| Lead Soldering Temperature, 10s max | °C   | -   | 250 |

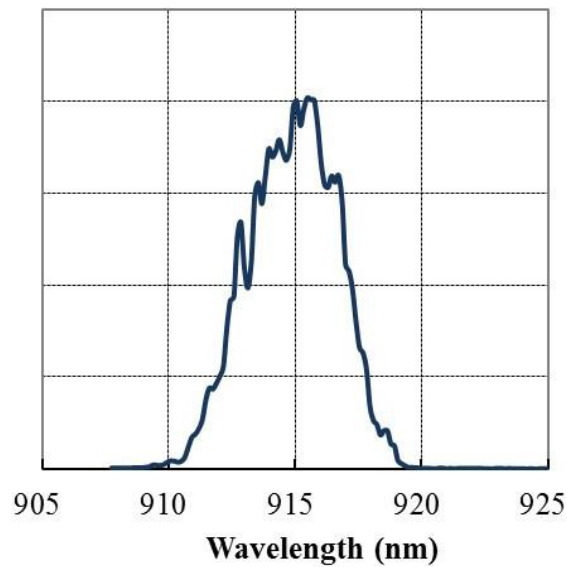
Addr: No.888 Jinhua Road High-tech Zone, Changchun 130103, P.R.China

Contact: sales@cnlaser.com International Tel: +86-431-85603799 Fax: +86-431-87020258

## Characteristics of 9XXnm-50W laser diode module (25°C)



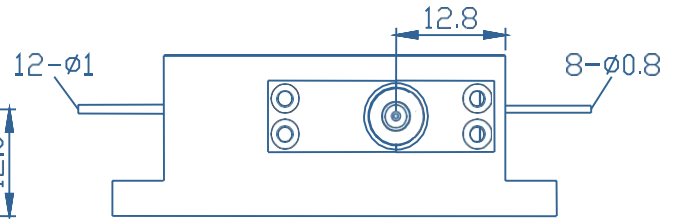
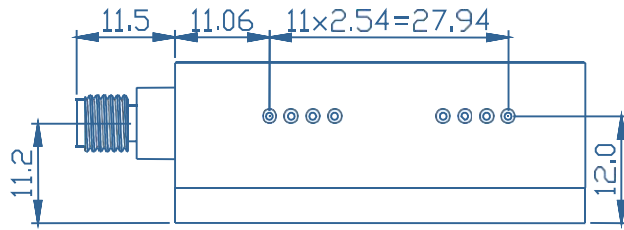
## Typical spectrum of 9XXnm-50W laser diode module (25°C)



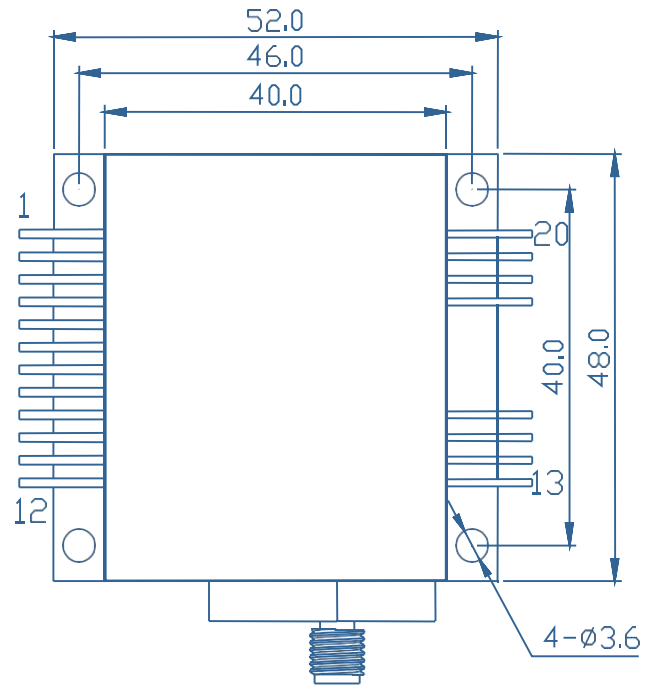
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## Package Dimensions (mm)



| Pin-Out Assignment |                |     |            |
|--------------------|----------------|-----|------------|
| Pin                | Function       | Pin | Function   |
| 1                  | LD (+)         | 11  | -          |
| 2                  | -              | 12  | -          |
| 3                  | -              | 13  | -          |
| 4                  | -              | 14  | -          |
| 5                  | -              | 15  | -          |
| 6                  | -              | 16  | -          |
| 7                  | -              | 17  | PD(N)      |
| 8                  | LD (-)         | 18  | PD(P)      |
| 9                  | Aiming Beam(-) | 19  | Thermistor |
| 10                 | Aiming Beam(+) | 20  | Thermistor |



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