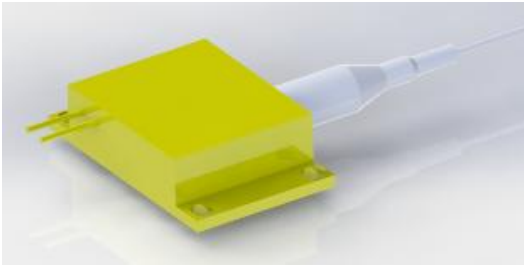
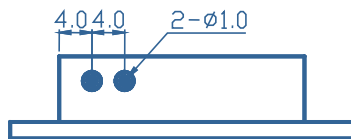


## T-Series High Power Laser Diode Module

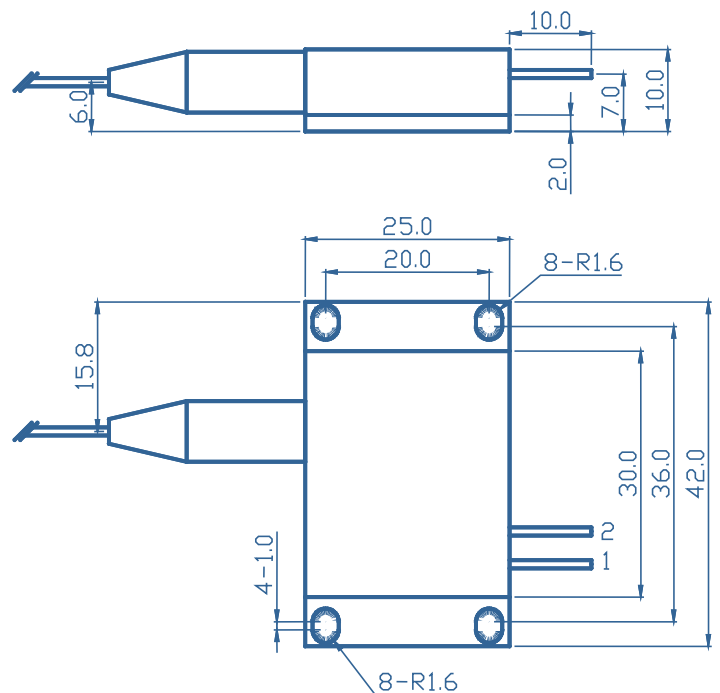


- Features**
- ◆ High output power of 30 W
  - ◆ 105μm/0.22NA multimode optical fiber
  - ◆ Center wavelength 915±10nm
- Applications**
- ◆ Fiber laser pumping
  - ◆ Material processing

### Package Dimensions (mm)



| Pin-out Assignment |          |
|--------------------|----------|
| Pin                | Function |
| 1                  | LD (+)   |
| 6                  | LD (-)   |



## Typical Device Performance (25°C)

|                                   | Min | Typical | Max | Unit    |
|-----------------------------------|-----|---------|-----|---------|
| <b>Optical</b>                    |     |         |     |         |
| CW Output Power                   | -   | 30      | -   | W       |
| Center Wavelength                 | -   | 915±10  | -   | nm      |
| Spectral Width (90% of Power)     | -   | <10.0   | -   | nm      |
| Wavelength Shift with Temperature | -   | 0.3     | -   | nm / °C |
| <b>Electrical</b>                 |     |         |     |         |
| Threshold Current                 | -   | 1.2     | -   | A       |
| Operating Current                 | -   | 11.3    | -   | A       |
| Operating Voltage                 | -   | 5       | -   | V       |
| Slope Efficiency                  | -   | 2.8     | -   | W / A   |
| Power Conversion Efficiency       | -   | 53      | -   | %       |
| <b>Fiber*</b>                     |     |         |     |         |
| Fiber Core Diameter               | -   | 105     | -   | μm      |
| Fiber Cladding Diameter           | -   | 125     | -   | μm      |
| Fiber Buffer Diameter             | -   | 250     | -   | μm      |
| Numerical Aperture                | -   | 0.22    | -   | -       |
| Fiber Length                      | -   | 1-5     | -   | m       |
| Fiber Connector                   | -   | -       | -   | -       |

\* Customized fiber and connector available.

## Absolute Ratings

|                                       | Min | Max                  | Unit |
|---------------------------------------|-----|----------------------|------|
| Operating Temperature                 | 15  | 35                   | °C   |
| Operating Relative Humidity           | -   | 75                   | %    |
| Cooling Mode                          | -   | Water cooling (25°C) | -    |
| Storage Temperature                   | -20 | 80                   | °C   |
| Storage Relative Humidity             | -   | 90                   | %    |
| Lead Soldering Temperature (10 s max) | -   | 250                  | °C   |

This instruction is for reference only. Han's TCS improves its products continually, therefore may change specifications without notice to customers, for details, please contact with Han's TCS sales.

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