

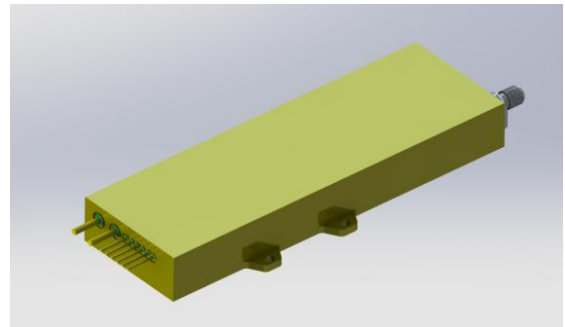
# 980nm Laser Diode

## ■ Features

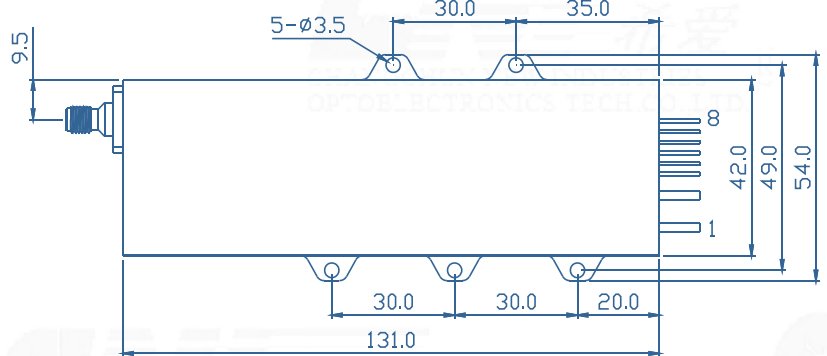
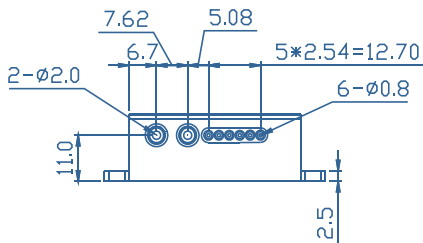
- ◆ High output power of 200W
- ◆ 400 $\mu$ m/0.22NA multimode optical fiber
- ◆ Center wavelength 980 $\pm$ 10nm

## ■ Applications

- ◆ Medical Application
- ◆ Industrial Processing



## Outline Dimension (mm)



## Pin-out Assignment

Pin	Function
1	LD (-)
2	LD (+)
3	Aiming Beam(+5V)*
4	Aiming Beam(0V)
5	PD (N)
6	PD (P)
7	Thermistor
8	Thermistor

## Typical Device Performance (25°C)

	Min	Typical	Max	Unit
<b>Optical</b>				
CW Output Power	-	200	-	W
Center Wavelength	-	980±10	-	nm
Spectral Width (FWHM)	-	<5.0	-	nm
Wavelength Shift with Temperature	-	0.35	-	nm /°C
<b>Electrical</b>				
Threshold Current	-	0.9	-	A
Operating Current	-	19	-	A
Operating Voltage	-	22.1	-	V
Slope Efficiency	-	11.1	-	W / A
Power Conversion Efficiency	50	47	-	%
<b>Aming Beam</b>				
Output Power	-	2	-	mW
Center Wavelength	-	650±10	-	nm
Operating Current	-	<30	-	mA
Operating Voltage	-	<2.5	-	V
<b>Fiber*</b>				
Fiber Core Diameter	-	400	-	μm
Fiber Cladding Diameter	-	440	-	μm
Fiber Buffer Diameter	-	700	-	μm
Numerical Aperture	-	0.22	-	-
Fiber Length	-	1-5	-	m
Fiber Connector	-	-	-	-

\* Customized fiber and connector available.

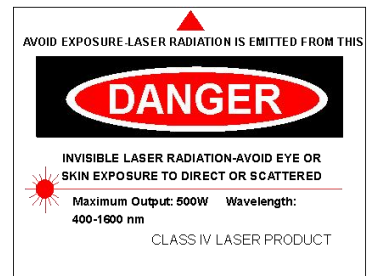
## Absolute Ratings

	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

\* Measuring specifications.

All figures in this specification are measured by CNI's method and may contain measurement deviations.

**The above specifications are for reference purpose only and subjected to change without prior notice.**



**Changchun New Industries Optoelectronics Tech. Co., Ltd**  
<http://www.cnilaser.com>

◆ CONTACT

No.668, Chuangxin Road, High-tech zone,  
Changchun 130012, China

Phone: 0086-431-85603799

Fax: 0086-431-87020258