



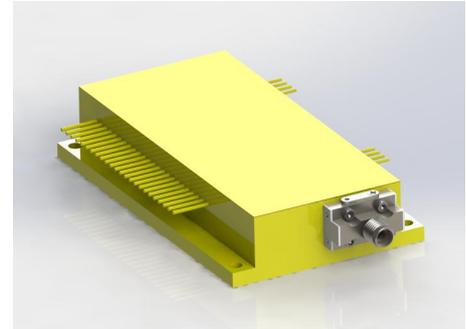
# 1470/980nm Laser Diode

## ■ Features

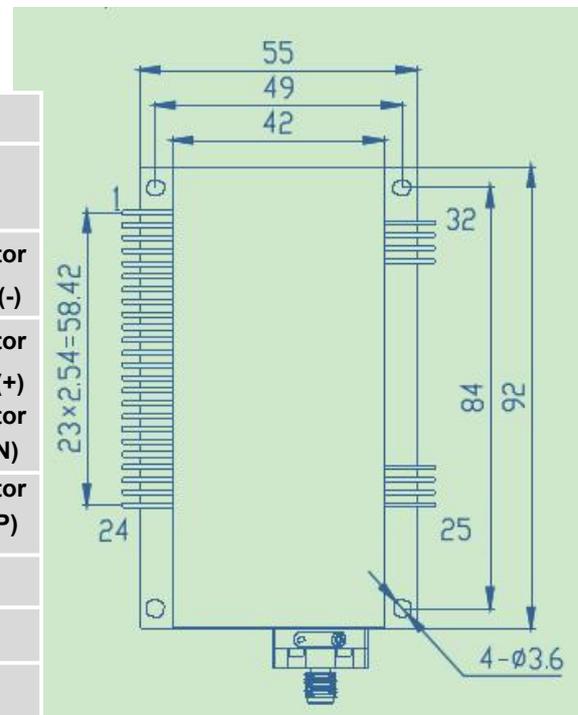
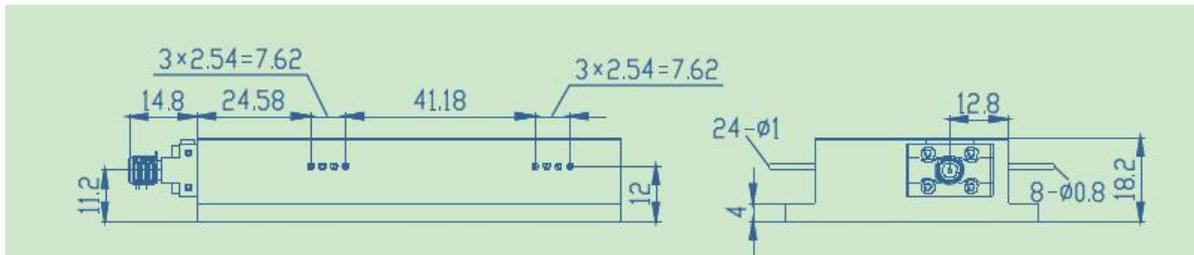
- ◆ High output power of 30/30W
- ◆ 200μm/0.22NA multimode optical fiber
- ◆ Center wavelength 1470/980±10nm

## ■ Applications

- ◆ Medical Application



## Outline Dimension (mm)



Pin-Out Assignment							
Pin	Function	Pin	Function	Pin	Function	Pin	Function
1	1470 LD (+)	9	-	17	-	25	Fiber Connector Detector LED(-)
2	-	10	-	18	-	26	Fiber Connector Detector LED(+) Fiber Connector Detector PD(N)
3	-	11	-	19	-	27	Fiber Connector Detector PD(P)
4	-	12	-	20	1470 LD (-)	28	-
5	-	13	-	21	980LD(+)	29	PD (N)
6	-	14	-	22	980 LD (-)	30	PD (P)
7	-	15	-	23	Aiming Beam (+5V) *	31	Thermistor
8	-	16	-	24	Aiming Beam (0V)	32	Thermistor

## Typical Device Performance (25°C)

	Typical		Unit
<b>Optical</b>			
CW Output Power	30	30	W
Center Wavelength	1470±10	980±10	nm
Spectral Width (90% of Power)	<10.0		nm
Wavelength Shift with Temperature	0.33		nm/°C
<b>Electrical</b>			
Threshold Current	0.5	1.1	A
Operating Current	9.2	18.0	A
Operating Voltage	15.9	3.1	V
Slope Efficiency	1.7	1.8	W / A
Power Conversion Efficiency	20.0	53.0	%
<b>Aiming Beam*</b>			
CW Output Power	2		mW
Center Wavelength	650		nm
Operating Current	-		mA
Operating Voltage	5.0		V
<b>Fiber*</b>			
Fiber Core Diameter	200		μm
Numerical Aperture	0.22		-
Fiber Length	1-5		m
Fiber Connector	-		-

\*\* Customized fiber and connector available.

## Absolute Ratings

	Min	Max	Unit
Operating Temperature	10	40	°C
Operating Relative Humidity	-	75	%
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.**



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