



1470/980/640nm Laser Diode

■ Features

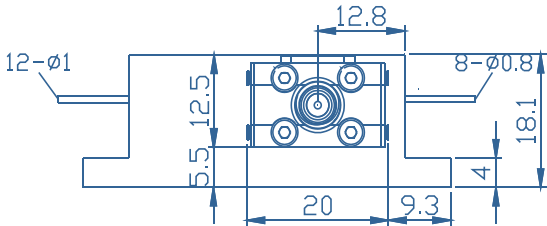
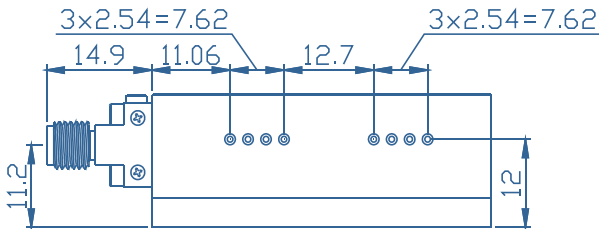
- ◆ High output power of 15/18/0.2W
- ◆ 200μm/0.22NA multimode optical fiber
- ◆ Center wavelength 1470/980/640±10nm

■ Applications

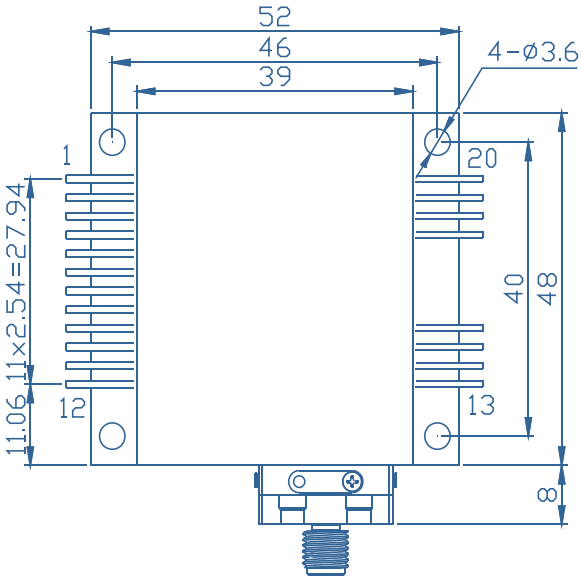
- ◆ Medical Application



Outline Dimension (mm)



Pin-out Assignment			
Pin	Function	Pin	Function
1	1470 LD (+)	11	640 LD (+)
2	-	12	640 LD (-)
3	-	13	Fiber Connector Detector LED (-)
4	-	14	Fiber Connector Detector LED (+)
5	-	15	Fiber Connector Detector PD (N)
6	-	16	-
7	-	17	PD (N)
8	1470 LD (-)	18	PD (P)
9	980 LD (+)	19	Thermistor
10	980 LD (-)	20	Thermistor



Typical Device Performance (25°C)

	Typical			Unit
Optical				
Center Wavelength	1470±10	980±10	640±10	nm
CW Output Power	15	18	0.2	W
Spectral Width (90%Energy)	<10.0			nm
Wavelength Shift with Temperature	0.33			nm/°C
Electrical				
Threshold Current	0.5	1.1	0.17	A
Operating Current	9.2	25	0.5	A
Operating Voltage	7.9	1.56	2.1	V
Slope Efficiency	0.5	0.75	0.6	W / A
Power Conversion Efficiency	20.0	46.0	19.0	%
Fiber*				
Fiber Core Diameter	200			μm
Fiber Cladding Diameter	220			μm
Numerical Aperture	0.22			-
Fiber Length	1-5			m
Fiber Connector	-			-

* Customized fiber and connector available.

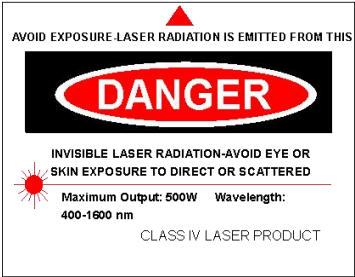
Absolute Ratings

	Min	Max	Unit
Operating Temperature	15	35	°C
Operating Relative Humidity	-	75	%
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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