



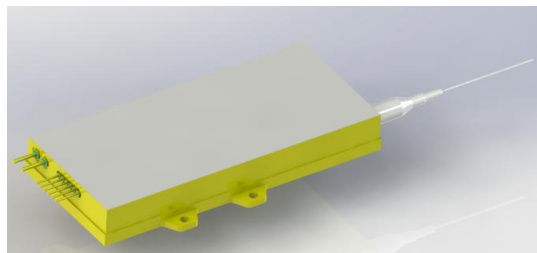
976nm Laser Diode

■ Features

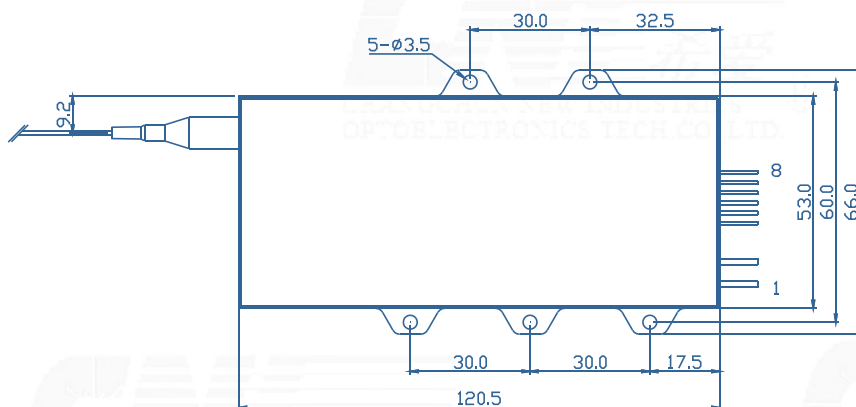
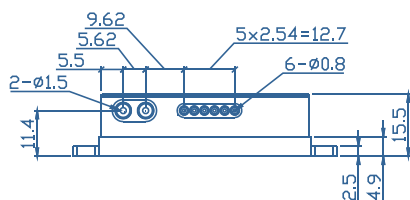
- ◆ High output power of 140W
- ◆ 105μm/0.22NA multimode optical fiber
- ◆ Center wavelength 976±0.5nm

■ Applications

- ◆ Fiber laser pumping
- ◆ Material processing



Outline Dimension (mm)



Pin-out Assignment

Pin	Function
1	LD (+)
2	LD (-)
3	-
4	-
5	PD (N)
6	PD (P)
7	Thermistor
8	Thermistor

Typical Device Performance (25°C)

	Min	Typical	Max	Unit
Optical				
CW Output Power	-	140	-	W
Center Wavelength	-	976±0.5	-	nm
Spectral Width (90% of Power)	-	<0.5	-	nm
Wavelength Shift with Temperature	-	0.02	-	nm / °C
Feedback Protection (1030-1100nm)	-	>40	-	dB
Power within 0.15 NA	-	>95%	-	-
Electrical				
Threshold Current	-	0.6	-	A
Operating Current	-	9.8	11.0	A
Operating Voltage	-	28.9	29.5	V
Slope Efficiency	-	15.2	-	W / A
Power Conversion Efficiency	42	49	-	%
Fiber*				
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	-	SMA905	-	-

* Customized fiber and connector available.

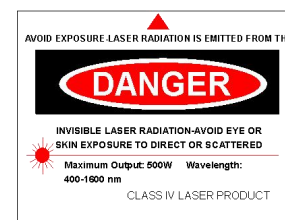
Absolute Ratings

	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.



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