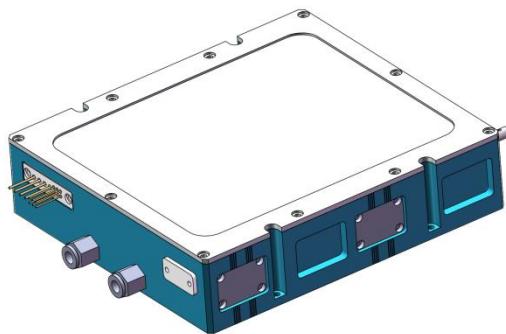




450nm Laser Diode



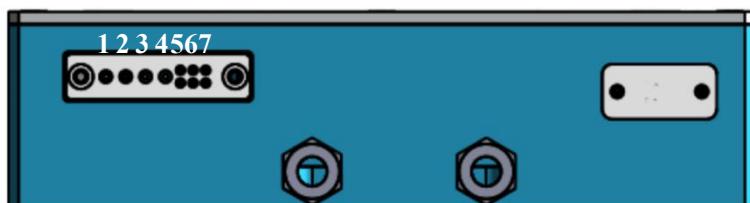
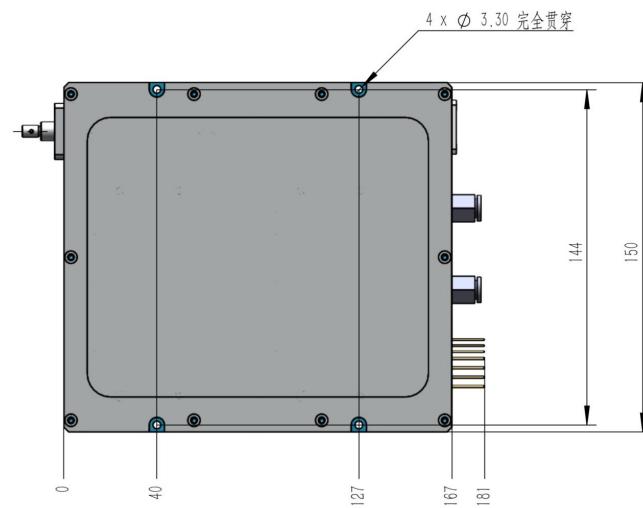
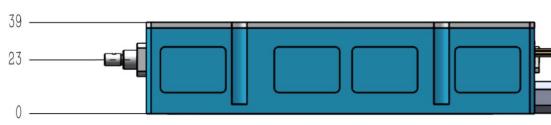
■ Features

- ◆ High output power of 50W
- ◆ 50μm/0.22NA multimode optical fiber
- ◆ Center wavelength 450±10nm

■ Applications

- ◆ Scientific Research
- ◆ Lighting
- ◆ Medical Application

Outline Dimension (mm)



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	1	2	3	4	5	6	7
The first row	LD1+	LD1-	LD2+	LD2-	NTC+	PD+	NC
The second row					NTC-	PD-	NC

■ Optional built-in PD

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Typical Device Performance (25°C)

	Min	Typical	Max	Unit
Optical				
CW Output Power	-	50	-	W
Center Wavelength	-	450±10	-	nm
Spectral Width (90% of Power)	-	4.0	-	nm
Electrical*				
Threshold Current	-	0.3	-	A
Operating Current (Simplex)	-	3	-	A
Operating Voltage (Simplex)	-	36	-	V
Fiber*				
Fiber Core Diameter	-	50	-	µm
Numerical Aperture	-	0.12	-	-
Fiber Length	-	1-5	-	m
Fiber Connector	-	SMA905	-	-
Fiber Armor	-	Optional	-	-
Fiber Minimum Bending Diameter	75	-	-	mm

The power supply mode of the laser has two power supplies.

Absolute Rating

	Min	Max	Unit
Operating Temperature	15	35	°C
Operating Relative Humidity	-	75	%
Storage Temperature	-20	50	°C
Lead Soldering Temperature (10 s max)	-	250	°C
Refrigeration method	Water cooling		-
Pipe specifications	Outside diameters 8mm*Inside diameters 5mm		-
Water discharge	5L/ min		-

* 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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