

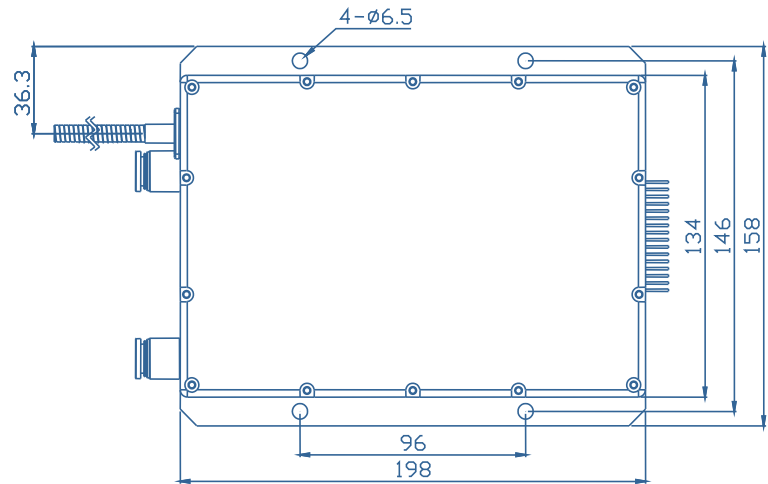
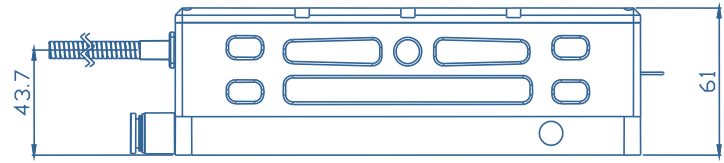
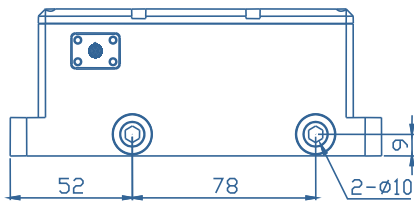
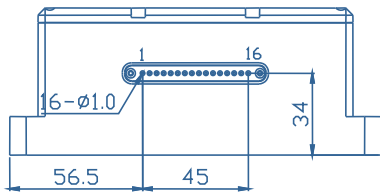
V-Series High Power Laser Diode Module



- Features**
- ◆ High output power of 200 W
 - ◆ 200μm/0.22NA multimode optical fiber
 - ◆ Center wavelength 450±10nm

- Applications**
- ◆ Industrial Processing
 - ◆ Lighting

Package Dimensions (mm)



Pin-out Assignment

Pin	Function	Pin	Function
1	LD1(+)	9	Aiming Beam (+5V)*
2	LD1(-)	10	Aiming Beam (0V)
3	LD2(+)	11	Thermistor
4	LD2(-)	12	Thermistor
5	LD3(+)	13	-
6	LD3(-)	14	-
7	LD4(+)	15	PD(N)
8	LD4(-)	16	PD(P)

*Optional built-in constant power circuit, 5V power supply needed.

Typical Device Performance (20°C)

	Min	Typical	Max	Unit
Optical				
CW Output Power	-	200	-	W
Center Wavelength	-	450±10	-	nm
Spectral Width (90% of Power)	-	4.0	-	nm
Electrical*				
Threshold Current	-	0.6	-	A
Operating Current	-	-	3.5	A
Operating Voltage（Single Channel）	-	65	-	V
Slope Efficiency（Single Channel）	-	18	-	W / A
Power Conversion Efficiency		22	-	%
Aiming laser **				
CW Output Power	-	2	-	mW
Center Wavelength	-	650±10	-	nm
Operating Current	-	<30	-	mA
Operating Voltage	-	5	-	V
Fiber***				
Fiber Core Diameter	-	200	-	μm
Numerical Aperture	-	0.22	-	-
Fiber Length	-	1~5	-	m
Fiber Connector	-	D80/SMA905	-	-
Water Cooling				
Cooling Capacity	1000		W	
Minimum Flow Rate	4.0		L/Min	
Water Pressure	0.3		Mpa	
Temperature	20		℃	
PH	5.6~7.9			
Water Quality	RO/DH20			

* 4 groups of LD assembled inside the module, and the operating voltage and slope efficiency of each groups are basically the same.

**Aiming laser: Optional built-in constant power circuit, 5V power supply needed. The operating voltage of 515nm green light is 9V.

***Customized fiber and connector available.

Absolute Ratings

	Min	Max	Unit
Operating Temperature	15	35	℃
Operating Relative Humidity	-	75	%
Storage Temperature	-20	80	℃
Storage Relative Humidity	-	90	%

This instruction is for reference only. Han's TCS improves its products continually, therefore may change specifications without notice to customers, for details, please contact with Han's TCS sales.

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