

R- Series High Power Laser Diode Module



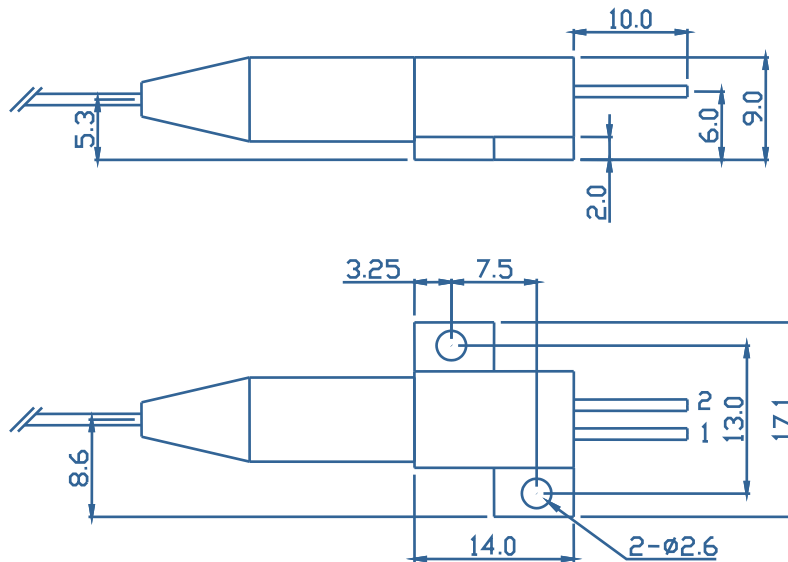
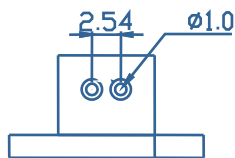
Features

- ◆ High output power of 5 W
- ◆ 105μm/0.22NA multimode optical fiber
- ◆ Center wavelength 793±3nm

Applications

- ◆ Laser detection and ranging
- ◆ Pump source

Package Dimensions (mm)



Pin-out Assignment

Pin	Function
1	LD(+)
2	LD(-)

Typical Device Performance (25°C)

	Min	Typical	Max	Unit
Optical				
CW Output Power	-	5	-	W
Center Wavelength	-	793±3	-	nm
Spectral Width (90% of Power)	-	<3.0	-	nm
Wavelength Shift with Temperature	-	0.3	-	nm / °C
Feedback Protection (1800-2100nm)	-	30	-	dB
Electrical				
Threshold Current	-	0.7	-	A
Operating Current	-	6	-	A
Operating Voltage	-	1.9	-	V
Slope Efficiency	-	0.9	-	W / A
Power Conversion Efficiency	-	44	-	%
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	-	-	-	-

* 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

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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