

Fiber-coupled Laser Diode Module

STC-LDM-915-150

Typical Device Performance (25°C)

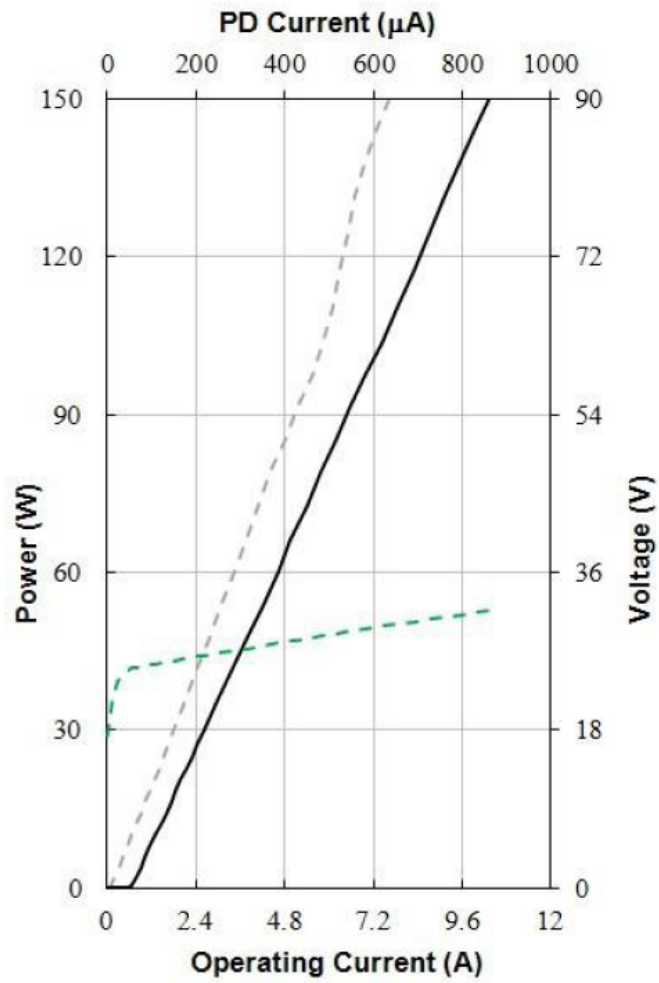
Optical	Unit	Typical Value
CW Output Power	W	150
Center Wavelength	nm	915±10
Spectral Width (90% of Power)	nm	<6.0
Wavelength Shift with Temperature	nm / °C	0.3
Feedback Protection (1030-1100nm)	dB	>40
Light within 0.17NA		95%
Electrical		
Threshold Current	A	0.7
Operating Current	A	10
Operating Voltage	V	31
Slope Efficiency	W / A	16.0
Power Conversion Efficiency	%	48
Fiber*		
Fiber Core Diameter	μm	105
Fiber Cladding Diameter	μm	125
Fiber Buffer Diameter	μm	250
Numerical Aperture	-	0.22
Fiber Length	m	1-5

* Customized fiber and connector available.

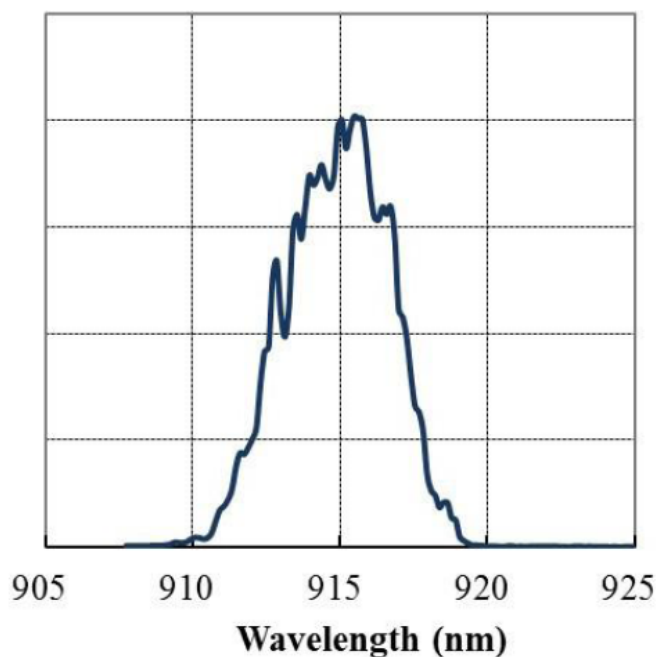
Absolute Ratings

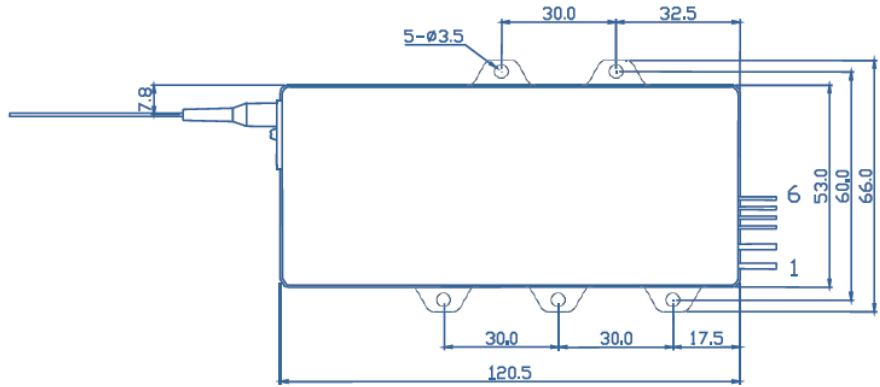
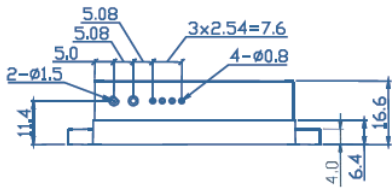
Parameter	Unit	Min	Max
Operating Temperature	°C	15	40
Operating Relative Humidity	%	-	75
Cooling mode			Water cooling (25°C)
Storage Temperature	°C	-20	80
Storage Relative Humidity	%	-	90
Lead Soldering Temperature, 10s max	°C	-	250

Characteristics of 915nm-150W laser diode module (25°C)



Typical spectrum of 915nm-150W laser diode module (25°C)





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