

## Fiber-coupled Laser Diode STC-LDM-915-50

### Typical Device Performance (25°C)

Optical	Unit	Typical Value
CW Output Power	W	50
Center Wavelength	nm	915, ± 10
Spectral Width (90% of Power)	nm	3
Wavelength Shift with Temperature	nm / °C	0.3
<b>Electrical</b>		
Threshold Current	A	1.4
Operating Current	A	11.0
Operating Voltage	V	9.0
Slope Efficiency	W / A	5.2
Power Conversion Efficiency	%	50
<b>Aiming Laser*</b>		
CW Output Power	mW	2.0
Center Wavelength	nm	650 ± 10
Operating Current	mA	<30
Operating Voltage	V	5.0
<b>Fiber**</b>		
Fiber Core Diameter	μm	200
Fiber Cladding Diameter	μm	220
Fiber Buffer Diameter	μm	500
Numerical Aperture	-	0.22
Fiber Length	m	1.0
Fiber Connector	-	SMA905

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

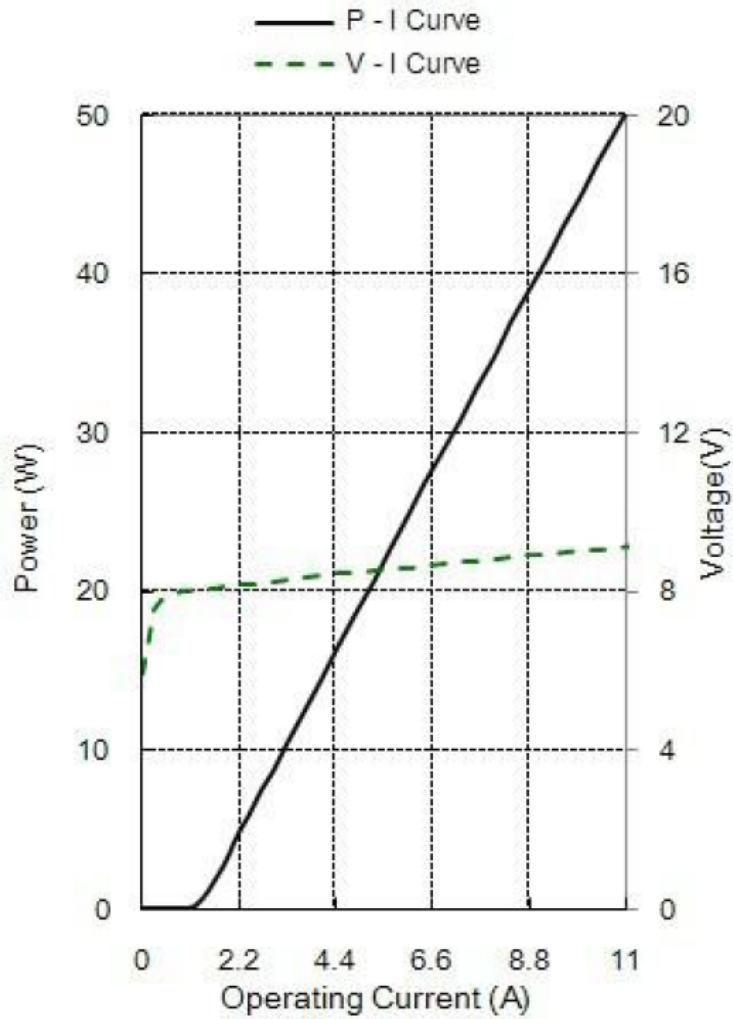
Optional constant voltage green aiming beam.

\*\*Customized fiber and connector available.

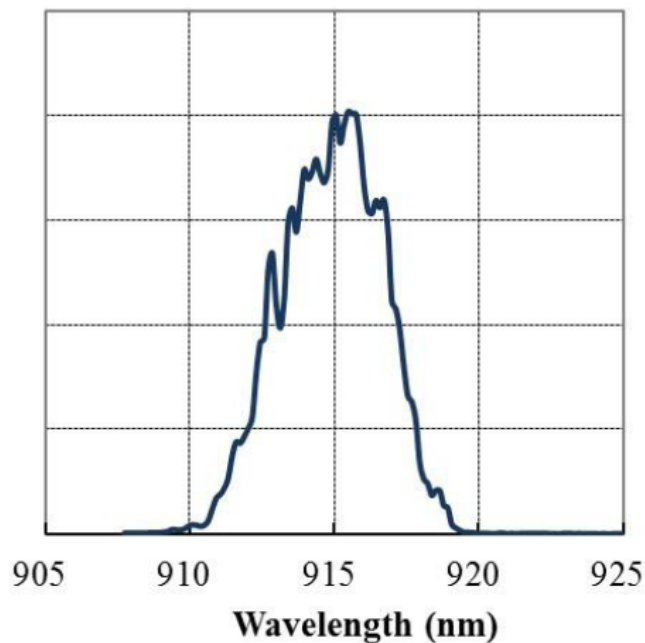
### Absolute Ratings

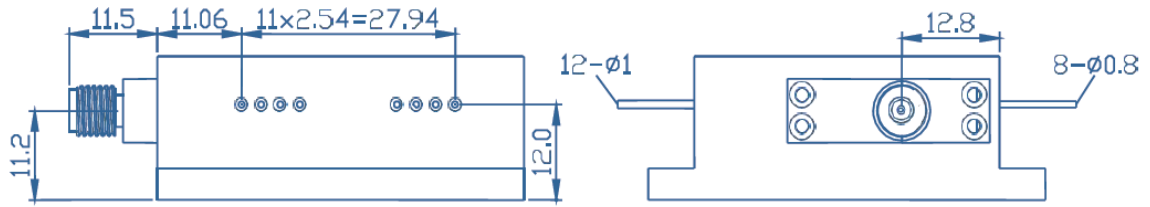
	Unit	Min	Max
Operating Temperature	°C	10	40
Operating Relative Humidity	%	-	75
Storage Temperature	°C	-20	80
Storage Relative Humidity	%	-	90
Lead Soldering Temperature, 10s max	°C	-	250

### Characteristics of 9XXnm-50W laser diode module (25°C)



### Typical spectrum of 9XXnm-50W laser diode module (25°C)





Pin-Out Assignment			
Pin	Function	Pin	Function
1	LD (+)	11	-
2	-	12	-
3	-	13	-
4	-	14	-
5	-	15	-
6	-	16	-
7	-	17	PD(N)
8	LD (-)	18	PD(P)
9	Aiming Beam(-)	19	Thermistor
10	Aiming Beam(+)	20	Thermistor

