

Fiber-coupled Laser Diode Module STC-LDM-980-15

Optical	Unit	Typical Value
CW Output Power	W	15
Center Wavelength	nm	980±10
Spectral Width (90% of Power)	nm	4
Wavelength Shift with Temperature	nm / °C	0.3
Electrical		
Threshold Current	A	0.7
Operating Current	A	9.0
Operating Voltage	V	3.6
Slope Efficiency	W / A	1.8
Power Conversion Efficiency	%	46
Aiming Laser*		
CW Output Power	mW	1
Center Wavelength	nm	650±10
Operating Current	mA	<30
Operating Voltage	V	~2.2
Fiber**		
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
Dimension	mm	52x35x17.2

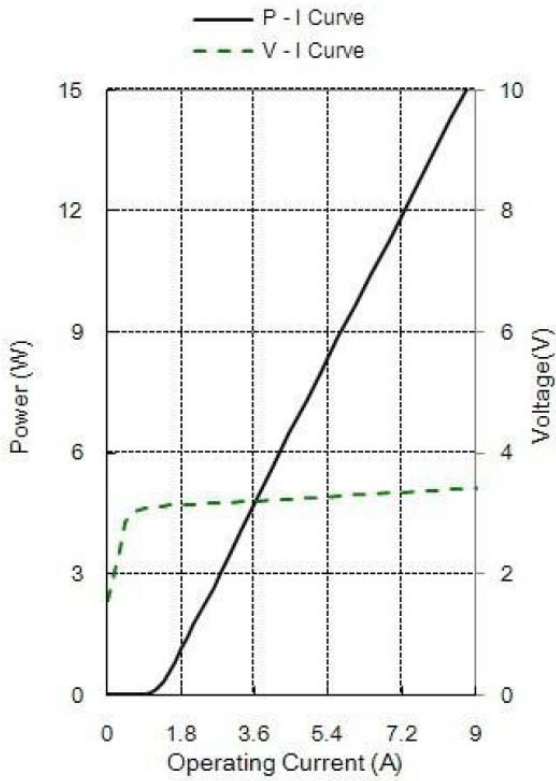
*Optional built-in constant power circuit, 5V power supply needed.

Optional constant voltage green aiming beam.

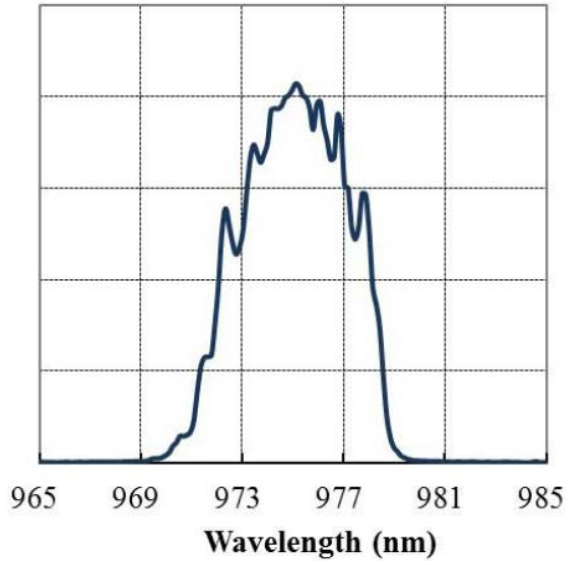
**Customized fiber and connector available.

Absolute Ratings

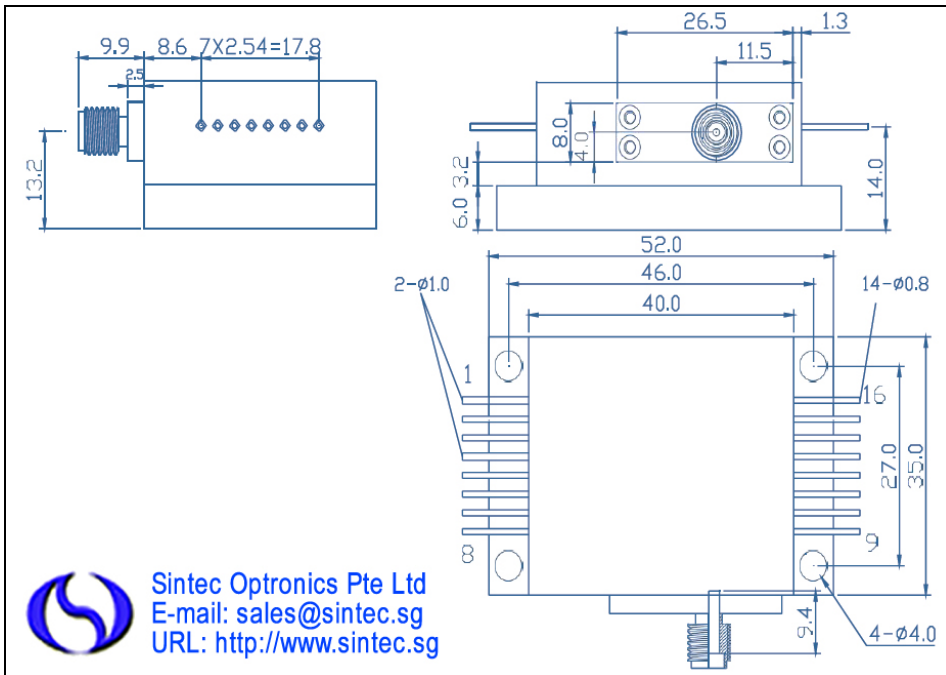
	Unit	Min	Max
Operating Temperature	°C	10	40
Operating Relative Humidity	%	-	75
Storage Temperature	°C	-20	80
Storage Relative Humidity	%	-	90
Lead Soldering Temperature, 10 s max	°C	-	250



Characteristics of 980nm-15W laser diode module (25°C)



Typical spectrum of 980nm-15W laser diode module (25°C)



Sintec Optronics Pte Ltd
 E-mail: sales@sintec.sg
 URL: <http://www.sintec.sg>

Pin-Out Assignment			
Pin	Function	Pin	Function
1	LD (+)	9	Fiber Connector Detector LED(-)
2	-	10	Fiber Connector Detector LED(+) Fiber Connector Detector PD(N)
3	-	11	Fiber Connector Detector PD(P)
4	LD (-)	12	Aiming Beam(+5V) PD (N)
5	-	13	Aiming Beam(0V)
6	-	14	PD (P)
7	-	15	Thermistor
8	-	16	Thermistor