



# LDM-976-100

## Typical Device Performance (25°C)

Optical	Unit	Typical Value
CW Output Power	W	100
Center Wavelength	nm	976±0.5
Spectral Width (90% of Power)	nm	<0.5
Wavelength Shift with Temperature	nm / °C	0.02
Wavelength Shift with Current	nm / A	0.05
Feedback Protection (1030-1100nm)	dB	>40
Electrical		
Threshold Current	A	0.5
Operating Current	A	9.0
Operating Voltage	V	24.5
Slope Efficiency	W / A	11.8
Power Conversion Efficiency	%	45
Fiber*		
Fiber Core Diameter	μm	105
Fiber Cladding Diameter	μm	125
Fiber Buffer Diameter	μm	250
Numerical Aperture	-	0.22
Fiber Length	m	1.0

\* Customized fiber and connector available.

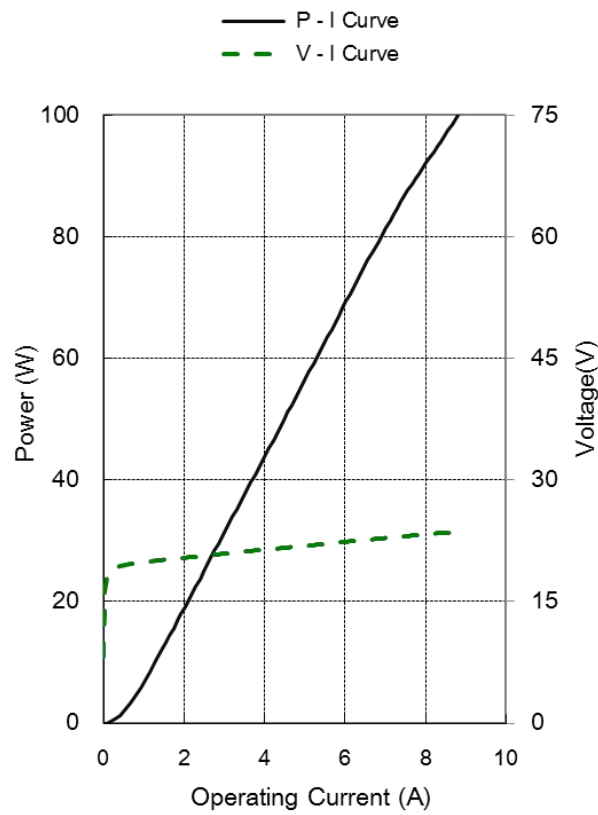
## Absolute Ratings

	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

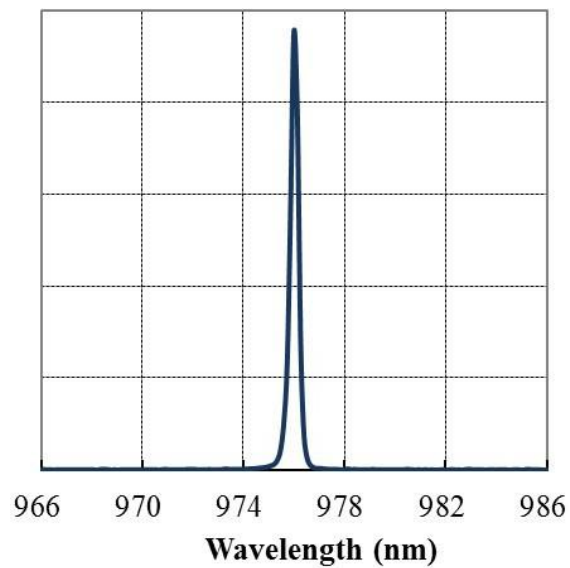
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## Characteristics of 976nm-100W laser diode module (25°C)



## Typical spectrum of 976nm-100W laser diode module (25°C)

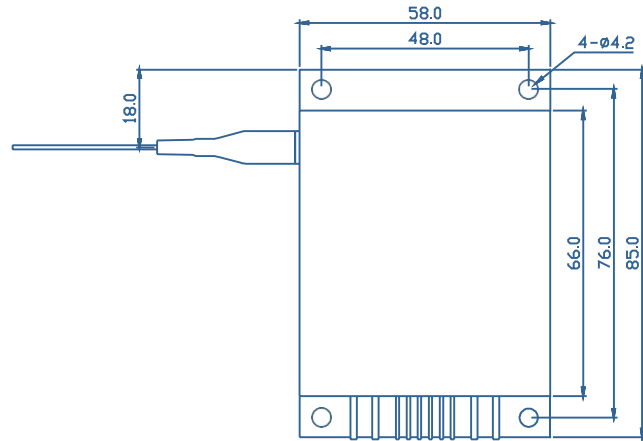
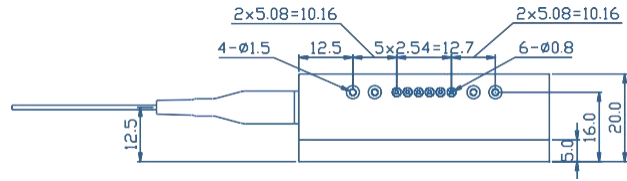
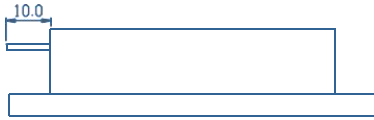


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## Package Dimensions (mm)



Pin Assignment	
Pin	Function
1	LD (-)
2	LD (-)
3	Thermistor
4	Thermistor
5	PD (P)
6	PD (N)
7	-
8	-
9	LD (+)
10	LD (+)

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