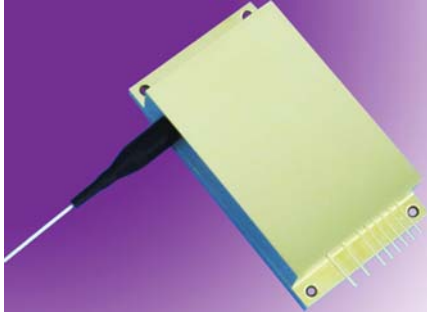


### LDM-976-50-C1



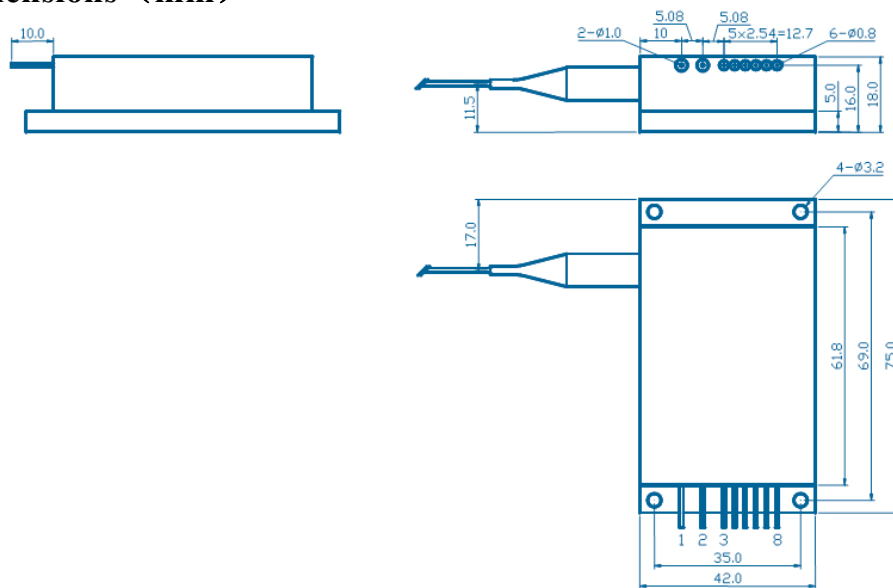
Characteristics
<b>Output Power 50W</b>
<b>Narrow line width&lt;0.5nm</b>
<b>976nm wavelength locked</b>
<b>Fiber Coupling 105μm</b>
<b>Fiber Core Dia. 0.22NA</b>
<b>Electrically isolated housing</b>
<b>Fiber laser feedback protection</b>
Application
<b>Fiber laser pumping</b>

Parameter		Symbol	Typical	Unit
Optical	CW Out Power	$P_{op}$	50	W
	Center Wavelength	$\lambda$	976±0.5	nm
	Spectral Width (90% of Power)	$\Delta\lambda$	<0.5	nm
	Wavelength Shift width Temperature	$\Delta\lambda/\Delta T$	0.02	nm / °C
	Wavelength Shift width Current	$\Delta\lambda/\Delta I_{op}$	0.05	nm/A
	Feedback Protection(1030-1100nm)	FP	>40	dB
Electrical	Threshold Current	$I_{th}$	0.6	A
	Operating current	$I_{op}$	11	A
	Operating Voltage	$V_{op}$	11.5	V
	Slop Efficiency	$\eta_{es}$	4.5	W / A
	Power Conversion Efficiency	$\eta_{ep}$	40	%
Fiber	Fiber Core Diameter	$d_{core}$	105	μm
	Fiber Cladding Diameter	$d_{clad}$	125	μm
	Fiber Buffer Diameter	$d_{buffer}$	250	μm
	Numerical Aperture	NA	0.22	-
	Fiber Length	L	1.0	m

## Other Parameters

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

## Package Dimensions (mm)



Pins and Functions			
Pin	Function	Pin	Function
1	Laser(+)	5	Thermistor
2	Laser (-)	6	Thermistor
3	PD(N)	7	NA
4	PD(P)	8	NA



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## 976nm Diode Laser Characteristics (25°C)

