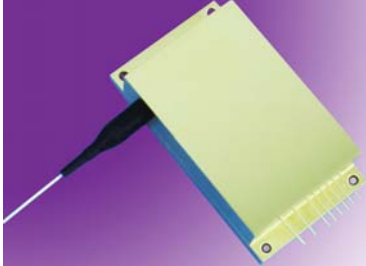


## LDM-635-5-C1T



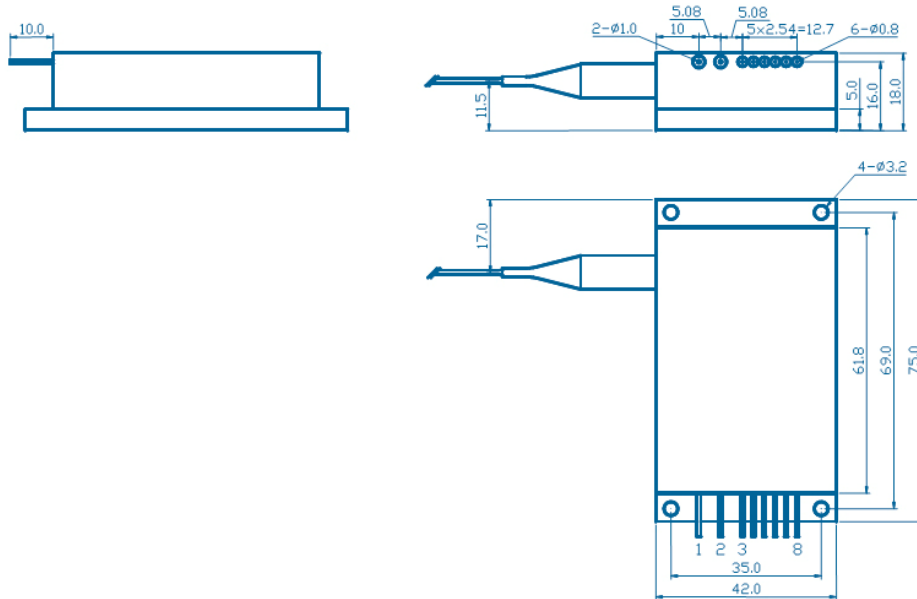
Characteristics
<b>Output Power 5W</b>
<b>Fiber Coupling 105μm</b>
<b>Fiber Core Dia. 0.22NA</b>
<b>TE cooler inside</b>
<b>Electrically isolated housing</b>
Application
<b>Medical use, Laser display</b>

Parameter		Symbol	Typical	Unit
Optical	<b>CW Out Power</b>	$P_{op}$	5	W
	<b>Center Wavelength</b>	$\lambda$	635 ±3	nm
	<b>Spectral Width (90% of Power)</b>	$\Delta\lambda$	<3.0	nm
	<b>Wavelength Shift width Temperature</b>	$\Delta\lambda/\Delta T$	0.35	nm / °C
Electrical	<b>Threshold Current</b>	$I_{th}$	0.4	A
	<b>Operating current</b>	$I_{op}$	1.3	A
	<b>Operating Voltage</b>	$V_{op}$	19	V
	<b>Slop Efficiency</b>	$\eta_{es}$	5.4	W / A
	<b>Power Conversion Efficiency</b>	$\eta_{ep}$	20	%
Fiber	<b>Fiber Core Diameter</b>	$d_{core}$	105	μm
	<b>Fiber Cladding Diameter</b>	$d_{clad}$	125	μm
	<b>Fiber Buffer Diameter</b>	$d_{buffer}$	250	μm
	<b>Numerical Aperture</b>	NA	0.22	-
	<b>Fiber Length</b>	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	PD(P)
2	Laser (-)	6	Thermistor
3	TEC (-)	7	Thermistor
4	PD(N)	8	TEC(+)



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## 635nm Diode Laser Characteristics (25°C)

