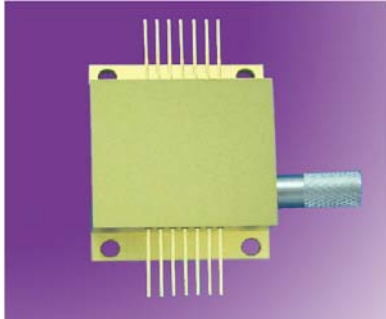


## LDM-808-40-T6



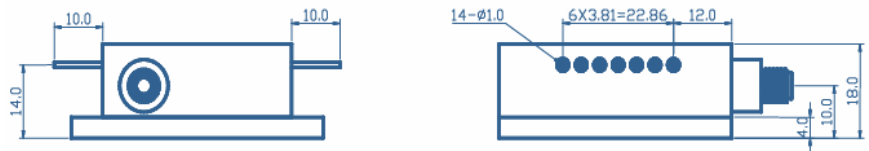
Characteristics
<b>Output Power 40W</b>
<b>Wavelength: 808nm</b>
<b>Fiber Coupling 200µm</b>
<b>Fiber Core Dia. 0.22NA</b>
<b>PD, Thermistor included</b>
<b>Fiber detector optional</b>
Applications
<b>Solid laser pumping, Medical use</b>

Parameter		Symbol	Typical	Unit
Optical	<b>CW Out Power</b>	$P_{op}$	40	W
	<b>Center Wavelength</b>	$\lambda$	808±3	nm
	<b>Spectral Width (90% of Power)</b>	$\Delta\lambda$	<3	nm
	<b>Wavelength Shift width Temperature</b>	$\Delta\lambda/\Delta T$	0.3	nm / °C
Electrical	<b>Threshold Current</b>	$I_{th}$	1.7	A
	<b>Operating current</b>	$I_{op}$	9	A
	<b>Operating Voltage</b>	$V_{op}$	10.8	V
	<b>Slop Efficiency</b>	$\eta_{es}$	5.4	W / A
	<b>Power Conversion Efficiency</b>	$\eta_{ep}$	42	%
Fiber	<b>Fiber Core Diameter</b>	$d_{core}$	200	µm
	<b>Numerical Aperture</b>	NA	0.22	-
	<b>Connector</b>	-	SMA905	-

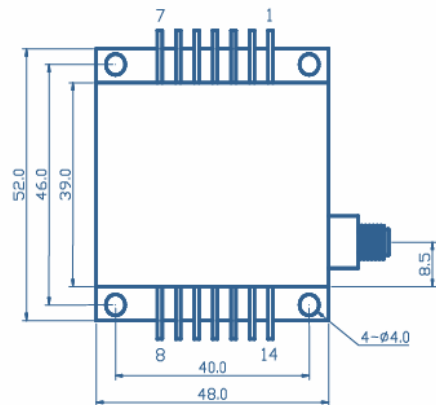
## Other Parameters

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(+)	8	-
2	PD(N)	9	-
3	PD(P)	10	-
4	Thermistor	11	-
5	Thermistor	12	-
6	-	13	-
7	Laser(-)	14	-



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## 808nm Diode Laser Characteristics (25°C)

