



LD-1210-1500-M



Features:

- Output Power 1.5W、High Stability
- Efficient Quantum Well Structure
- Standard C-Mount Package

Applications:

- Solid-state Laser Pumping
- Medicine/Life and Health Sciences
- Illumination
- Material Processing

Absolute Maximum Ratings

T_{case}=25 °C

Parameter	Symbol	Value	Unit
Output Power	P _o	1.5	W
LD Reverse Voltage	V _R	2.5	V
Operating Temperature	T _{op}	15~30	°C
Operating Humidity	H _{op}	Non-condensing	RH
Storage Temperature	T _{stg}	-20~+80	°C
Lead Soldering Temperature (<5 sec.)	T _{is}	260	°C

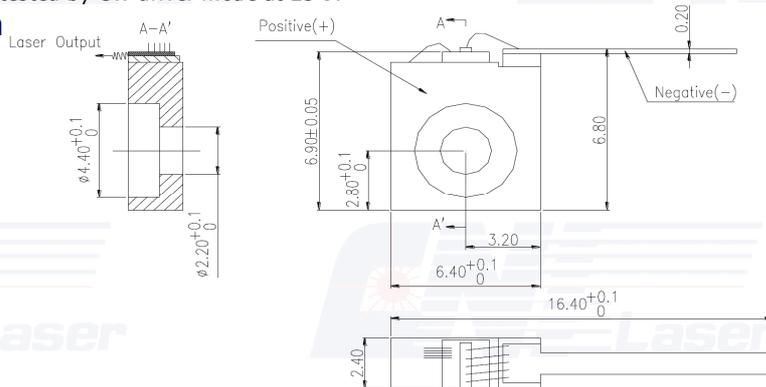
Initial Electrical/Optical Characteristics

T_{case}=25 °C

Item	Symbol	Condition	Min.	Typ.	Max.	Unit	
Threshold Current	I _{th}	CW	-	0.32	0.5	A	
Operating Current	I _{op}	P _o =1.5W	-	2.9	3.5	A	
Operating Voltage	V _{op}	P _o =1.5W	-	1.55	1.80	V	
Wavelength	λ _{peak}	P _o =1.5W	1200	1210	1220	nm	
Spectral Width	FWHM	P _o =1.5W	-	6	-	nm	
Wavelength Temperature Coeff.	Δλ/ΔT	-	-	0.3	-	nm/°C	
Slope Efficiency	η	-	-	0.50	-	W/A	
Power Conversion Efficiency	η _{TOT}	-	-	≥45	-	%	
Beam Divergence (FWHM)	Parallel	Q _∥	P _o =1.5W	-	8	-	°
	Perpendicular	Q _⊥	P _o =1.5W	-	8	10	°
Polarization	TE						

*The production test specifications are tested by CW driver mode at 25°C.

Outline Dimension



* Measuring specifications.
All figures in this specification are measured by CNI's method and may contain measurement deviations.

The above specifications are for reference purpose only and subjected to change without prior notice.



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