



LD-1550-1500-M



Features:

- High Stability, High reliability
- Au-Sn Hard Solder
- Standard C-Mount Package

Applications:

- Material Processing
- Medicine/Life and Health Sciences
- Fiber coupling

Absolute Maximum Ratings

$T_{case}=25\text{ }^{\circ}\text{C}$

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	$^{\circ}\text{C}$
Operating Humidity	H_{op}	Non-condensing	RH
Storage Temperature	T_{stg}	-20~+80	$^{\circ}\text{C}$
Lead Soldering Temperature (<5 sec.)	T_{is}	260	$^{\circ}\text{C}$

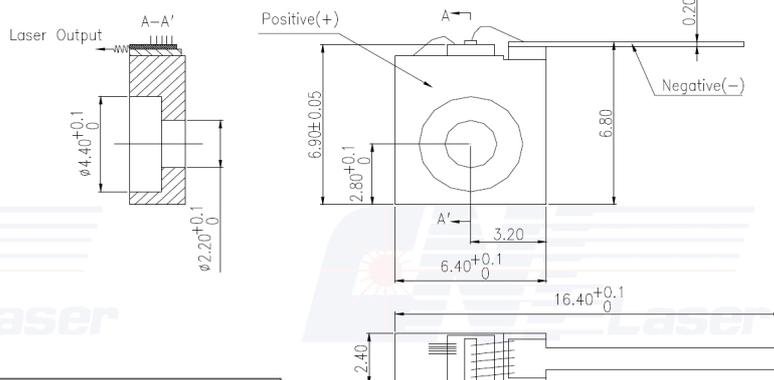
Initial Electrical/Optical Characteristics

$T_{case}=25\text{ }^{\circ}\text{C}$

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current	I_{th}	CW	-	0.5	0.6	A
Operating Current	I_{op}	$P_o=1.5W$	-	3.5	4.5	A
Operating Voltage	V_{op}	$P_o=1.5W$	-	1.5	1.75	V
Wavelength	λ_{peak}	$P_o=1.5W$	1530	1550	1570	nm
Spectral Width	FWHM	$P_o=1.5W$	-	-	10	nm
Wavelength Temperature Coeff.	$\Delta\lambda/\Delta T$	-	-	0.7	-	nm/ $^{\circ}\text{C}$
Slope Efficiency	η	-	-	0.4	-	W/A
Power Conversion Efficiency	η_{TOT}	-	30	-	-	%
Beam Divergence (FWHM)	Parallel	$P_o=1.5W$	-	8	-	$^{\circ}$
	Perpendicular	$P_o=1.5W$	-	8	9.5	$^{\circ}$
Polarization	TE					

*The production test specifications are tested by CW driver mode at 25 $^{\circ}\text{C}$.

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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