

LD-1310-BA-6W

High Power Diode Laser on open heatsink - 6W @ 1310nm



Features:

- InAs/GaAs Quantum Dot based diode laser
- CW, quasi-CW or pulse operation
- Proprietary mirror coating technology enabling high reliability
- Reliable Au/Sn-bonding of chip to C-mount open heatsink
- Burn-in test passed

Applications:

Medical

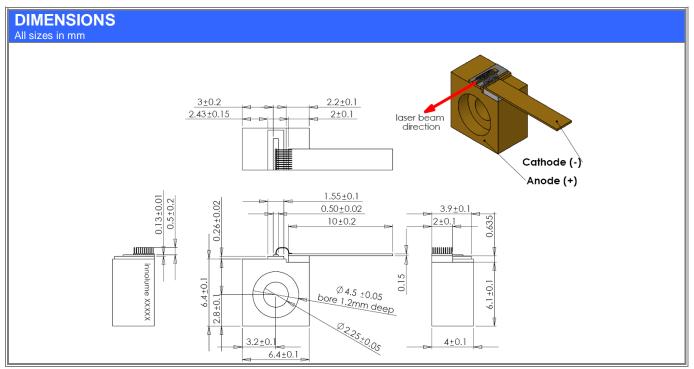
Specification DATE: 11th Mar. 2010

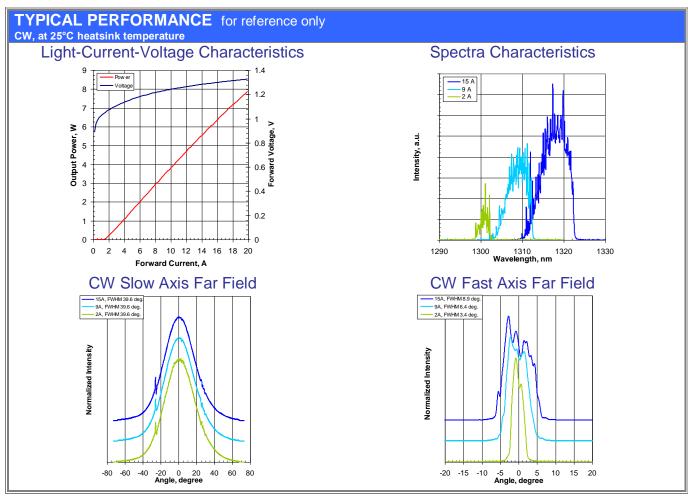
Parameters	Min.	Тур.	Max.	Unit
Output power	6			W
Mean wavelength ¹	1300	1310	1320	nm
Wavelength temperature tunability	0.55	0.6	0.65	nm/°C
Spectral width (FWHM)		10	14	nm
Operating current		15	17	А
Threshold current		1.2	1.5	А
Forward voltage		1.3	1.5	V
Aperture size		250x1		μm²
Divergence parallel to p-n junction (FWHM)	8	12	14	deg.
Divergence perpendicular to p-n junction (FWHM)	34	37	40	deg.

¹ Weighted mean ("center of mass") spectral point.

ABSOLUTE MAXIMUM RATINGS						
Parameters	Min.	Тур.	Max.	Unit		
Lead soldering temperature		250 (5 sec.)		°C		
Anode reverse voltage		1		V		
Forward current			20	Α		
Storage temperature range (in original sealed pack)	5		80	°C		
Operating temperature range	above dew point		60	°C		









SAFETY AND OPERATING INSTRUCTIONS

The laser light emitted from this Device is invisible and will harmful to the human eye. Avoid looking directly into the device output or into the collimated beam along its optical axis when the device is in operation. Proper laser safety eyewear must be worn during operation.

Absolute Maximum Ratings may be applied to the Device for short period of time only. Exposure to maximum ratings for extended period of time or exposure above one or more max ratings may cause damage or affect the reliability of the Device. Operating the product outside of its maximum ratings may cause device failure or a safety hazard. Power supplies used with the Device must be employed such that the maximum peak optical power cannot be exceeded. A proper heatsink for the Device on thermal radiator is required, sufficient heat dissipation and thermal conductance to the heatsink must be ensured.

The Device is an Open-Heatsink Diode Laser; it may be operated in cleanroom atmosphere or dust-protected housing only. Operating temperature and relative humidity must be controlled to avoid water condensation on the laser facets. Any contamination or contact of the laser facet must be avoided.

ESD PROTECTION – Electrostatic discharge is the primary cause of unexpected product failure. Take extreme precaution to prevent ESD. Use wrist straps, grounded work surfaces and rigorous antistatic techniques when handling the product.



LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT





NOTE: Innolume product specifications are subject to change without notice.