

LD-785-CoC-2W

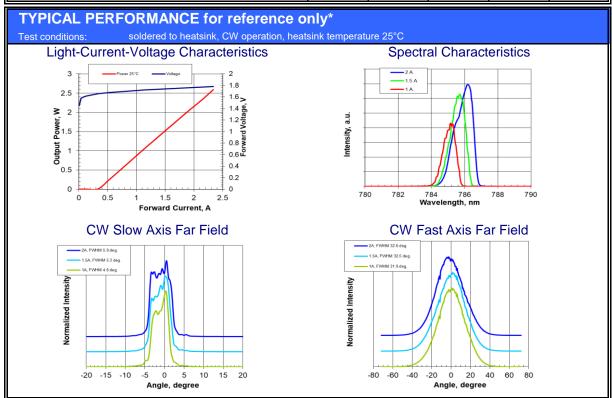
High Power Broad-Area Laser Diode on submount



Features:

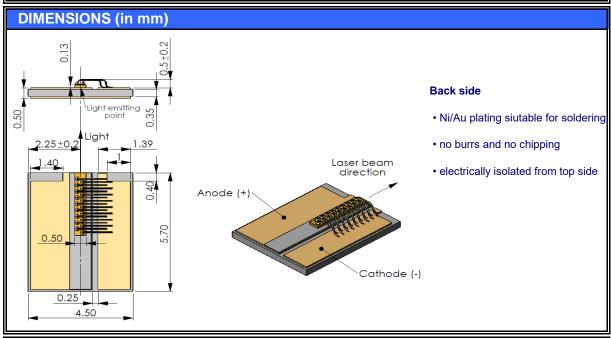
- 2.0W output power at 785nm
- Proprietary mirror coating technology enabling high reliability
- RoHS compliance
- AR coating for external cavity wavelegth locking available on request

SPECIFICATIONS Test conditions: tightly clamped to 25°C heatsink						
Parameters	Symb.	Min.	Тур.	Max.	Unit	
Operating output power	Pout	2			W	
QCW output power (200µs pulse width, 1% duty cycle)	Pqcw	3			W	
Central wavelength	λ	775	785	795	nm	
Spectral width @ -3dB level at Pout	Δλ			2	nm	
Wavelength temperature tunability	Δλ/ΔΤ	0.25	0.3	0.35	nm/°C	
Threshold current	lth		0.4	0.6	Α	
Operating current at Pout	lop		1.9	2.5	Α	
Forward voltage at Pout	Vf		1.8	1.9	V	
Divergence parallel to p-n junction (FWHM)	ΘΙΙ	4	6	8	deg.	
Divergence perpendicular to p-n junction (FWHM)	ΘΤ	30	33	36	deg.	
Aperture size			90 × 1		μm × μm	





ABSOLUTE MAXIMUM RATINGS						
Parameters	Min.	Max.	Unit			
Laser Diode reverse voltage	-	2	V			
Laser Diode CW forward current	-	2.5	Α			
Soldering temperature		250 (5sec.)	°C			
Operating temperature range	above dew point	60	°C			
Storage temperature range	-40	85	°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 fiber 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 by flux-free soldering.

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.











Example of Part Number Identification

LD-785-CoC-2W -> 2.0W output power at mean wavelength 785nm

NOTE: Innolume product specifications are subject to change without notice