PD-LD

785nm Single Mode VBG Stabilized Laser Diode

PD-LD presents a high power, VBG® wavelength stabilized single mode, single frequency laser diode, emitting at 785 nm. The PD-LD patented VBG® wavelength stabilization method offers a stable operation over a wide range of operational temperatures and power levels. The compact, low cost TO package makes this product applicable to many uses.

Superior Performance:
- Precise Wavelength ±0.5 nm
- Narrow Line Width <0.1pm
- High Optical Power >80mW
- Low Temp. drift ~0.01nm/°C

Advantages:
- Compact
- Integrated Clean-up Filter
- Economical
- Ease of System Integration

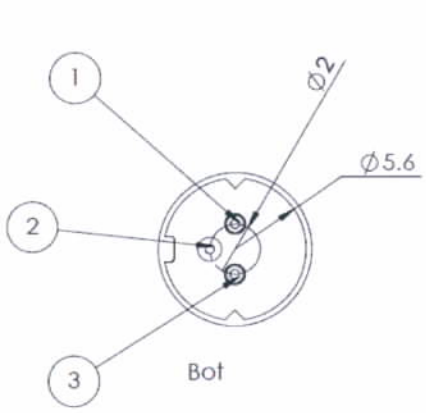
Applications:
- Spectroscopy
- Sensing
- Medical
- Military

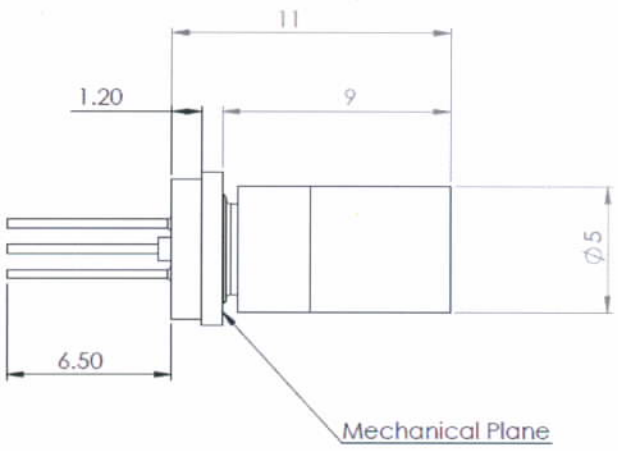
Operational Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Wavelength	nm	784.5	785	785.5
Spectral Linewidth	MHz			50
ASE Suppression	dB	40		
Output Power	mW	80	-	-
Beam Quality - Vertical	M^2		1.2	
Beam Quality - Horizontal	M^2		1.1	
Beam Diameter	mm		1.0	
Beam Aspect Ratio				1 : 1.5
Beam Divergence - Vertical	mrad		0.8	
Beam Divergence - Horizontal	mrad		1.3	
Beam Stability (8-hour)	µrad			50
Polarization Extinction Ratio			100:1	
Operating Voltage	Volts		2.6	
Operating Current	mA		150	200
Threshold Current	mA		60	
Operating Temperature with Stabilization	°C	10	25	40

30-B Pennington-Hopewell Road, Pennington, NJ 08534 Tel: 609-564-7900; Fax: 609-564-7901; Email: info@pd-ld.com;
http://www.pdld.com

Dimensions and Pinout Options





PIN ASSIGNMENT			
PIN	OPTION1	OPTION2	OPTION3
1	PD ANODE	TH+	TH+ LD CATHODE
2	CASE GROUND PD CATHODE LD ANODE	TH- LD CATHODE CASE GROUND	TH- CASE GROUND
3	LD CATHODE	LD ANODE	LD ANODE

All dimensions are in mm

Part Number System

LML-785.0-T5-XX

- T5 indicates TO-56 package.
- XX is a customer specific reference.

Note: Other wavelengths are also available. Please contact info@pd-ld.com for further information

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