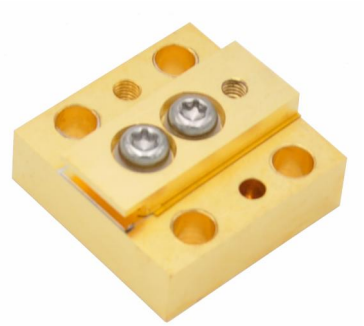
Diode Laser Packaged Bars and Arrays

808nm Conduction-cooled Packaged Bars (QCW)

LDA series high power packaged bars provide OEM customers with scalable power up to kilowatts for pumping, industrial, medical and applications. The packaged laser bars can be configured for enhanced brightness through stacking, scaled linearly or vertically for optimized light and material integration. LDA series offer

- Wavelengths at 808nm to 1100nm range
- Modular and Compact design for ease of integration
- Up to 100W CW and 300W QCW laser diode bars for high brightness
- Packaged 10mm laser diode bar, various standard bar configurations (custom bar configurations available on request)



Parameters（20℃）

Conduction-cooled Packaged Bars					
Parameter		Unit	LDAQ1-0808-***W		
Optical Parameter	Operation Mode	-	QCW		
	Center Wavelength	nm	808		
	Output Power	W	100	200	300
	Spectral Width	nm	< 5	< 5	< 5
	Wavelength& Temperature Ratio	nm/℃	0.28	0.28	0.28
	Fast Axis Divergence	deg	< 39	< 39	< 39
	Slow Axis Divergence	deg	< 10	< 10	< 10
	Pulse Width	μs	<500		
	Duty Ratio	%	≤ 4		
Electrical Parameter	Threshold Current	A	< 25	<30	< 30
	Operating Current	A	≤ 110	≤ 200	≤ 300
	Operating Voltage	V	< 2.0	< 2.0	< 2.0
Thermal Parameter	Operating Temperature	℃	15 ~ 35		
	Storage Temperature	℃	-10 ~ 60		

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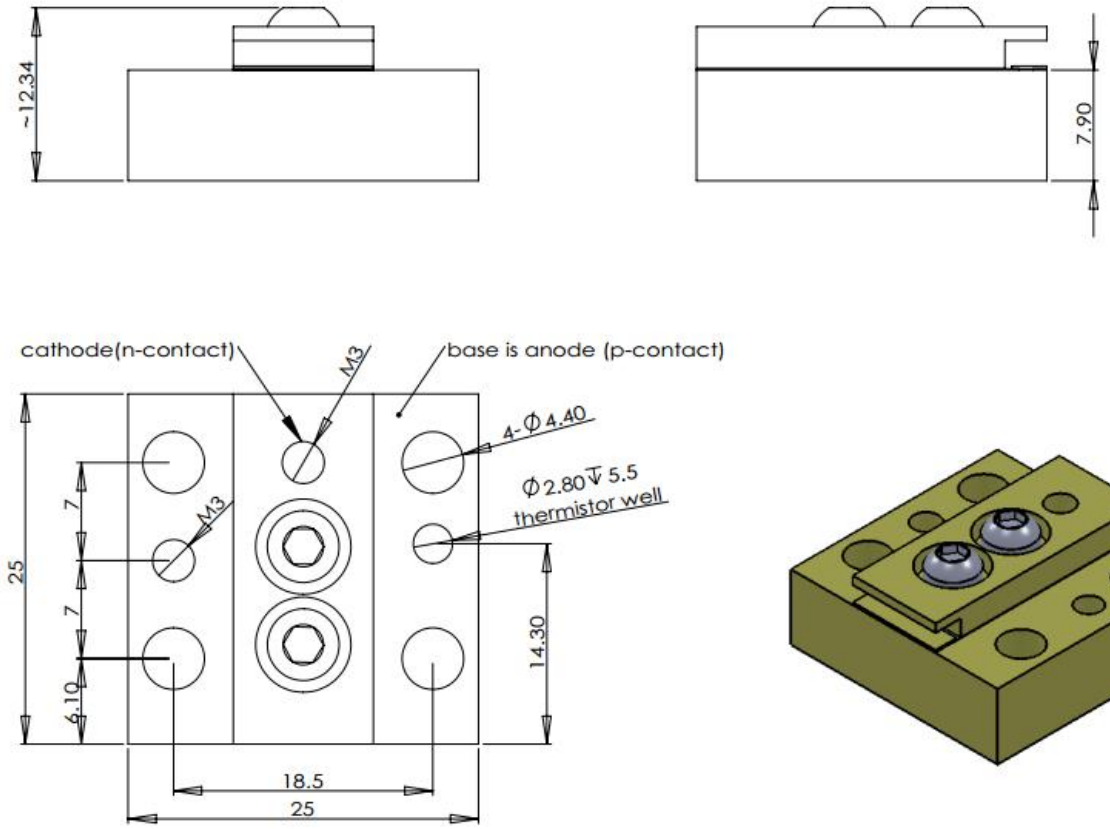
Package Information



Notice

1. Item model notice: LDAQ1 (item model)-0808 (center wavelength)-**** (output power).
2. Package data is only for reference, which can be customized according to client's designed drawings.
3. Please make sure laser diode is operated under the temperature between 15℃ and 35℃, as high temperature will increase threshold current, decrease exchange rate and accelerate the aging.
4. Please take measures to avoid condensation, which will cause aging of laser diode.
5. For more information, please contact Hi-Tech Optoelectronics Co., Ltd.

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