

Diode Laser Packaged Bars and Arrays

Conduction-cooled Vertical Arrays (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)

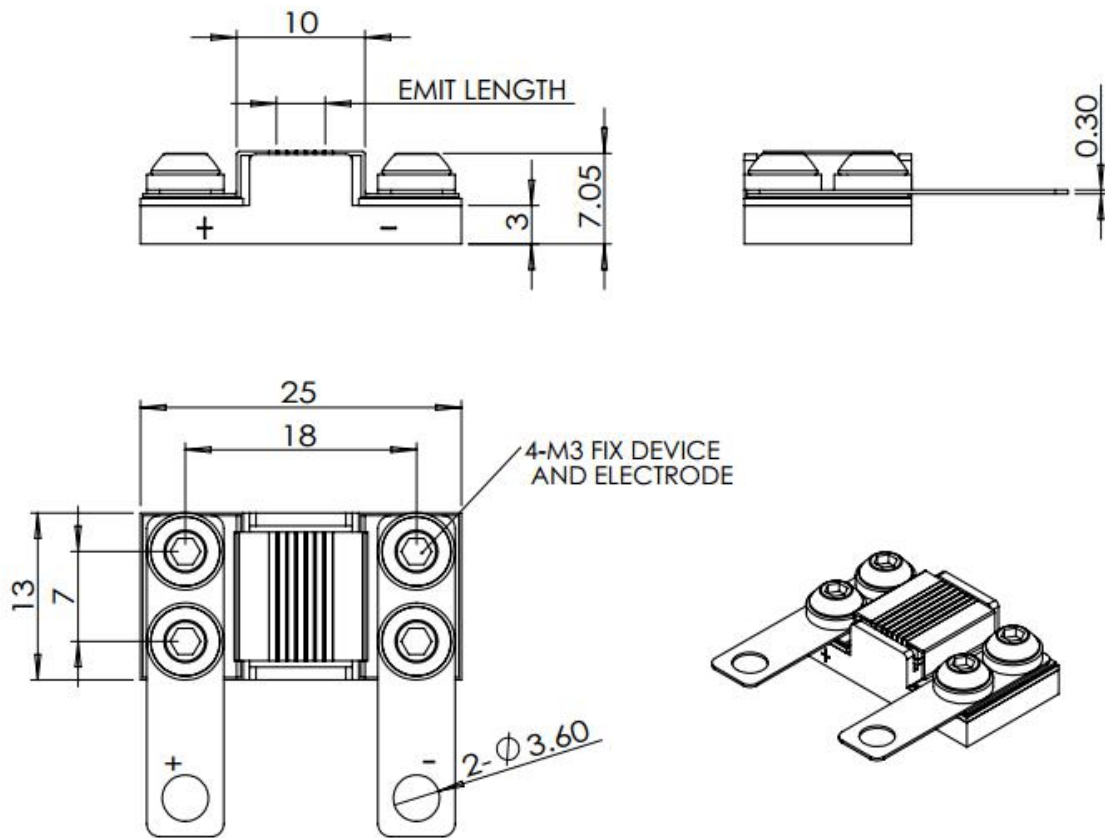


Parameters (25°C)

Conduction-cooled Vertical Arrays							
Parameter		Unit	LDAQ2-0808-****			LDAQ2-09xx-****	
Optical Parameter	Operation Mode	-	QCW				
	Center Wavelength	nm	808			940	
	Output Power/Bar	W	100	200	300	100	200
	Bar Qty.	-	5/10/20			5/10/20	
	Spectral Width	nm	<5			< 5	
	Wavelength & Temperature Ratio	nm/°C	0.28			0.28	
	Pulse Width	µs	<500			<500	
	Duty Ratio	%	≤ 4			≤ 4	
	Fast Axis Divergence	deg	<39			< 39	
	Slow Axis Divergence	deg	<10			< 10	
Electrical Parameter	Threshold Current	A	<25	<30	<30	<25	<30
	Operating Current	A	<110	<200	<300	<110	<200
	Operating Voltage/Bar	V	<2.0			< 2.0	
Thermal Parameter	Operating Temp.	°C	15 ~ 35			15 ~ 35	
	Storage Temp.	°C	-10 ~ 60			-10 ~ 60	



Package Information



Notice

1. Item model notice: LDAQ2 (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°C and 35°C, 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.

