

## Diode Laser Packaged Bars and Arrays

### Micro-channel Water-cooled Horizontal Arrays (CW)

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



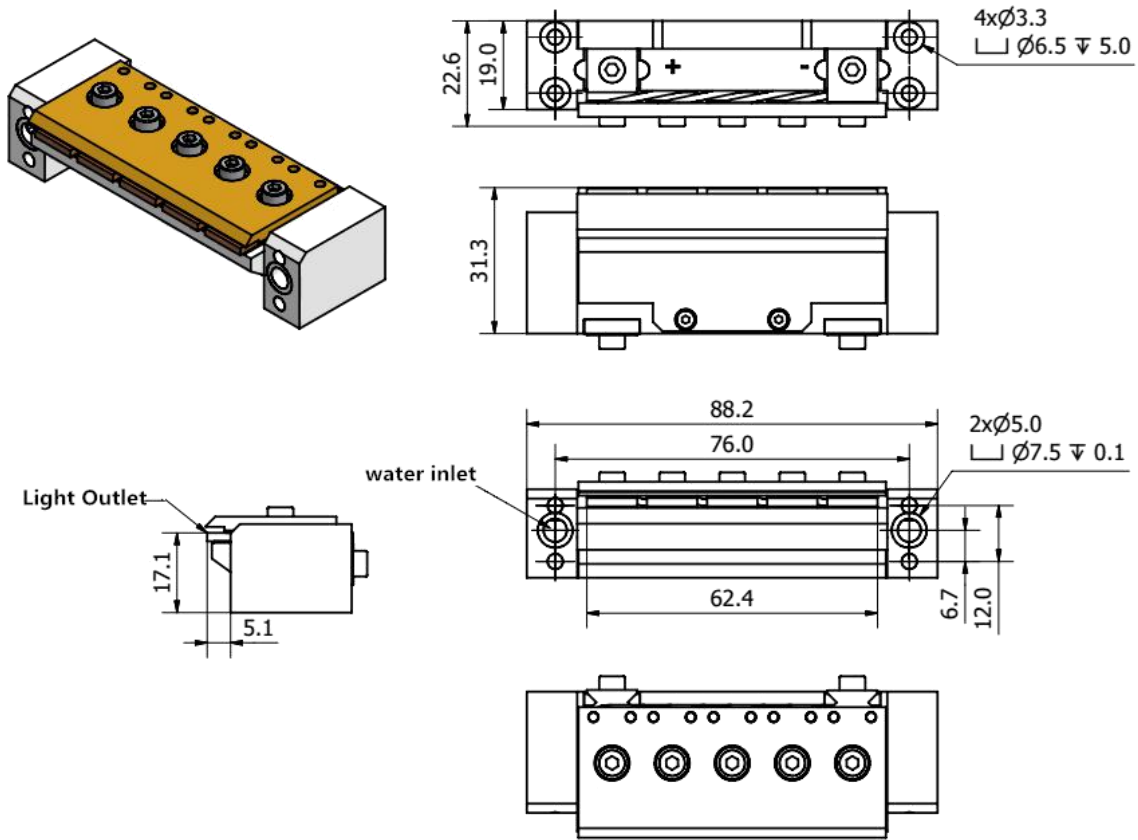
### Parameters ( 25°C )

Micro-channel Water-cooled horizontal Arrays

Parameter		Unit	LDAC3-0808-****				LDAC3-09xx-****				LDAC3-1064-040W		
Optical Parameter	Operation Mode	-	CW										
	Center Wavelength	nm	808				915/940/980				1064		
	Output Power/Bar	W	40	60	80	100	40	60	80	100	40		
	Spectral Width	nm	< 5				< 5				< 5		
	Fast Axis Divergence	deg	< 39				< 39				< 39		
	Slow Axis Divergence	deg	< 10				< 10				< 10		
Electrical Parameter	Threshold Current	A	<7	<15	<25	<25	<7	<15	<25	<25	<7		
	Operating Current	A	<40	<70	<95	<110	<40	<70	<95	<110	< 50		
	Operating Voltage/Bar	V	< 2.0				< 2.0				< 2.0		
Thermal Parameter	Max. Inlet Pressure	psi	65				65				65		
	Cooling rate/Bar	l/min	≥ 0.3				≥ 0.3				≥ 0.3		
	Cooling Medium Particle size	µm	≤ 15				≤ 15				≤ 15		
	Cooling Medium Conductivity	µs/cm	5 ~ 10				5 ~ 10				5 ~ 10		
	Operating Temp.	°C	15 ~ 35				15 ~ 35				15 ~ 35		
	Storage Temp.	°C	-10 ~ 60				-10 ~ 60				-10 ~ 60		



## Package Information



## Notice

1. Item model notice: LDAC3 (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.

