Diode Laser Packaged Bars and Arrays

Micro-channel Water-cooled Packaged Bars (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
- 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℃）

Micro-channel Water-cooled Packaged Bars							
Parameter		Unit	LDAC1-0808-****			LDAC1-09xx-060W	LDAC1-1064-040W
Optical Parameter	Operation Mode	-	CW				
	Center Wavelength	nm	808			915/940/980	1064
	Output Power/Bar	W	40	60	100	60	40
	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
Electrical Parameter	Threshold Current	A	<7	<15	<25	<15	<7
	Operating Current	A	<40	<70	<110	<70	< 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.	℃	15 ~ 35			15 ~ 35	15 ~ 35
	Storage Temp.	℃	-10 ~ 60			-10 ~ 60	-10 ~ 60

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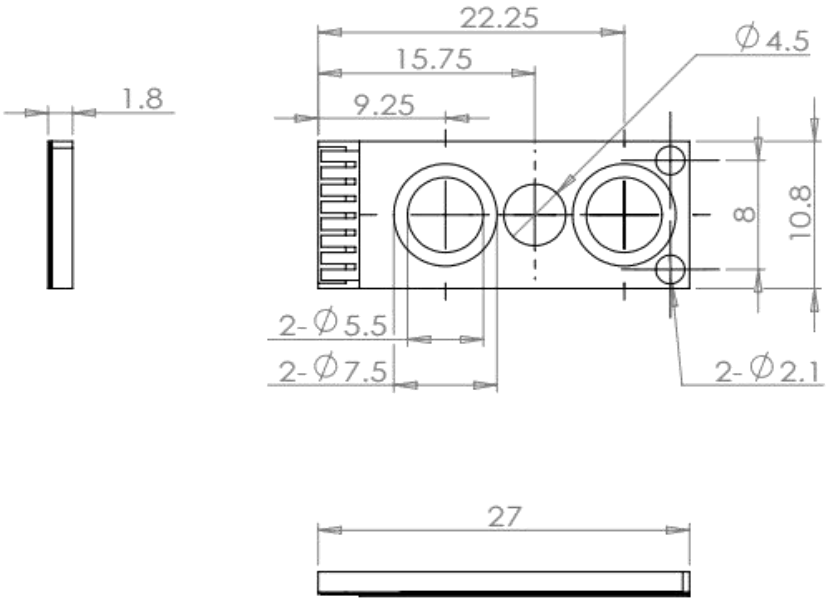
Package Information



Notice

1. Item model notice: LDAC1 (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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