



Model No. LDH808C500WI

808nm High Power CW Microchannel Water-Cooled Horizontal Array

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

FEATURES

- 808nm Microchannel Water-Cooled Horizontal Array
- CW Operation
- High output power: 500W
- Spectral width: <5 nm
- High reliability, High efficiency
- Modular and compact design for ease of integration
- Packaged 10mm laser diode bar



SPECIFICATIONS (T_c = 25°C)

ITEM	PARAMETER	LDH808C500WI	UNIT
OPTICAL PARAMETER	Center wavelength	808	nm
	Operation mode	CW	-
	Output power	500	W
	Output power/bar	100	W
	Spectral width	<5	nm
	Bar quantity	5	-
	Fast axis divergence	<39	deg
	Slow axis divergence	<10	deg
ELECTRICAL PARAMETER	Threshold current	<25	A
	Operating current	<110	A
	Operating voltage/Bar	<2.0	V
THERMAL PARAMETER	Max. inlet pressure	65	psi
	Cooling rate/bar	≥0.3	1/min
	Cooling medium particle size	≤15	µm
	Cooling medium conductivity	5 to 10	µs/cm
	Operating temperature	15 to 35	°C
	Storage temperature	-10 to +60	°C

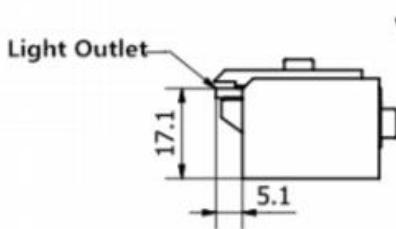
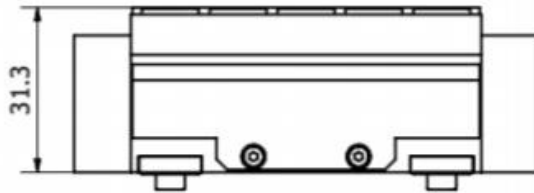
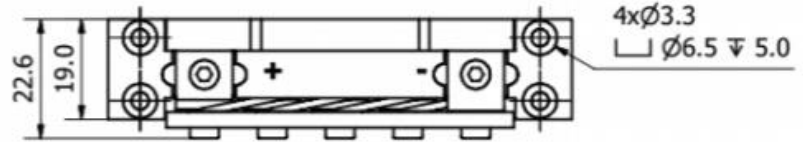
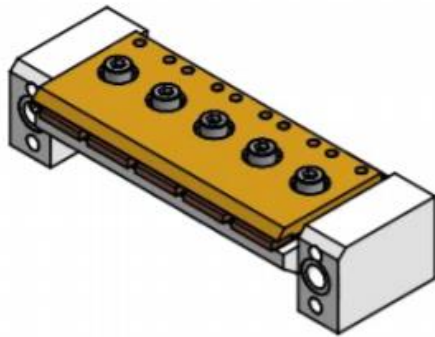




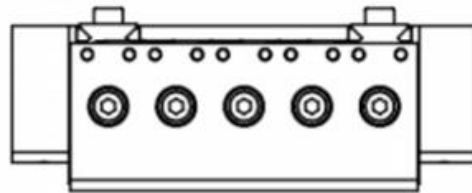
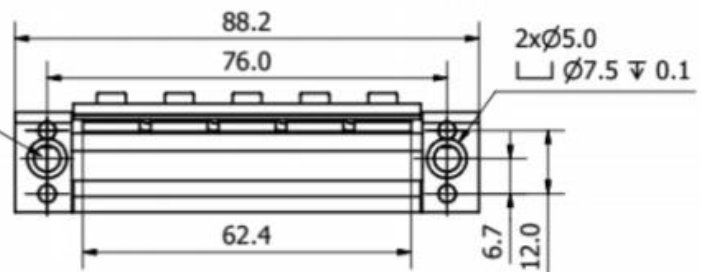
LASERMATE GROUP, INC.

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MECHANICAL OUTLINE (unit: mm)



water inlet



Notes:

1. The above specifications are subject to change without notice.
2. Please make sure that the 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.
3. Please take measures to avoid condensation, which will cause aging of laser diode.



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