LASERMATE GROUP, INC.
The Friend of Lasers

Model No. LDH940C160WA
940nm High Power CW Macrochannel 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

- 940nm Macrochannel Water-Cooled Horizontal Array
- CW Operation
- High output power: 160W
- 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)

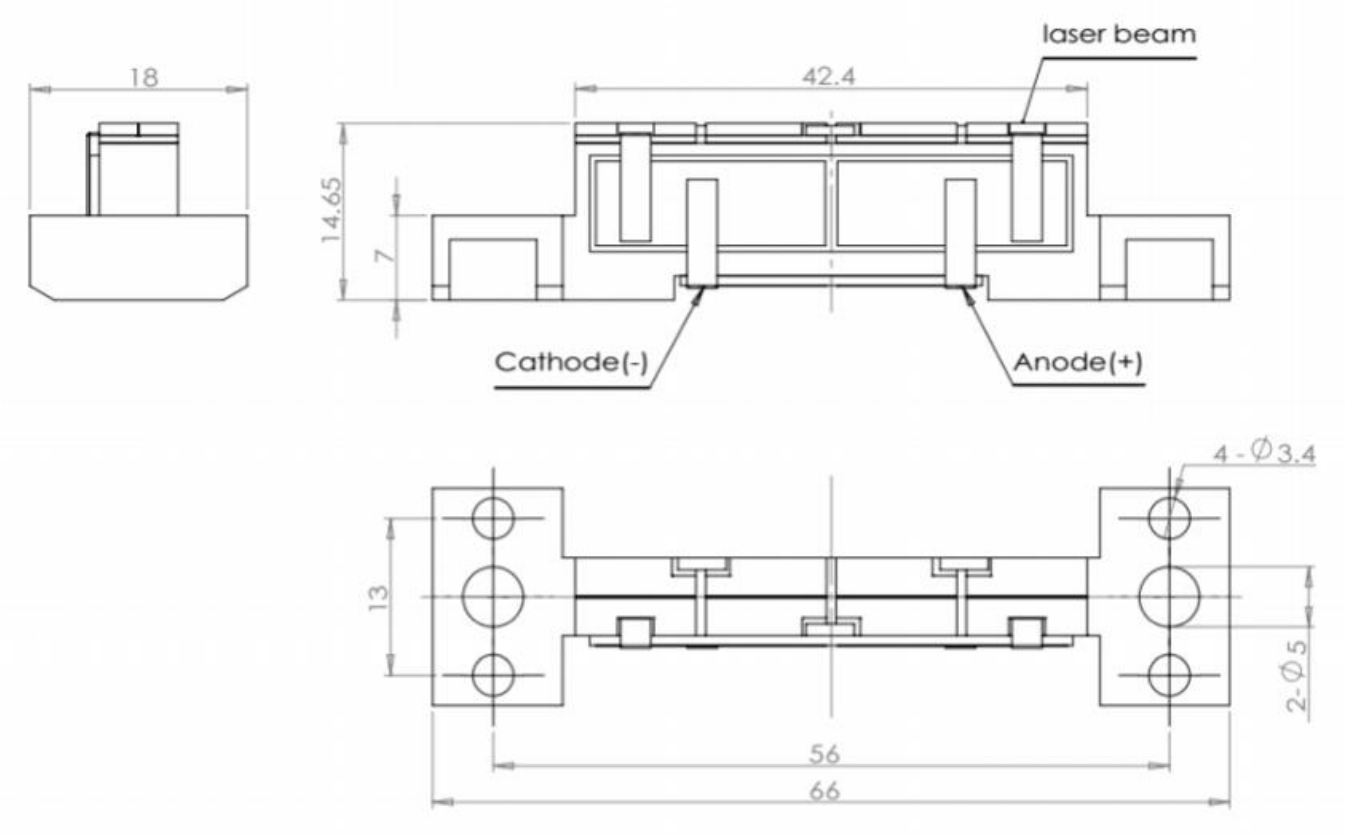
ITEM	PARAMETER	LDH940C160WA	UNIT
OPTICAL PARAMETER	Center wavelength	940	nm
	Operation mode	CW	-
	Output power	160	W
	Output power/bar	40	W
	Spectral width	<5	nm
	Bar quantity	4	-
	Wavelength Temperature coefficient	0.28	nm/°C
	Fast axis divergence	<39	deg
	Slow axis divergence	<10	deg
ELECTRICAL PARAMETER	Threshold current	<7	A
	Operating current	<40	A
	Operating voltage/Bar	<2.0	V
THERMAL PARAMETER	Operating temperature	15 to 35	°C
	Storage temperature	-10 to +60	°C

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.

19608 Camino De Rosa, Walnut, CA 91789, USA | Tel: (909)718-0999 | Fax: (909)718-0998 |
E-mail: info@lasermate.com | URL: http://www.lasermate.com

MECHANICAL OUTLINE (unit: mm)



Notes:

4. The above specifications are subject to change without notice.
5. 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.
6. Please take measures to avoid condensation, which will cause aging of laser diode.