

LDBxxxQxWC QCW Conduction-Cooled Single Laser Diode Bar (808nm)

Description

The LDBxxxQxWC 808nm conduction-cooled, high power laser diode bar offers up to 100 Watts QCW. With its scalable power, the diode laser packaged bar can be used in a pumping, industrial and medical applications that require high-peak power. The compact package can be configured for enhanced brightness through stacking, scaled linearly or vertically for optimized light and material integration.



Features

- 808nm Conduction-Cooled Packaged Diode Laser Bar
- High output power: Up to 100W QCW
- High brightness
- Modular and compact design for ease of integration
- Packaged 10mm laser diode bar

Applications

- Pumping
- Industrial
- Medical
- Printing
- Scientific research

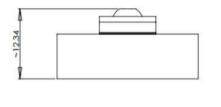


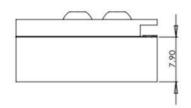
Specifications (T_C = 20°C)

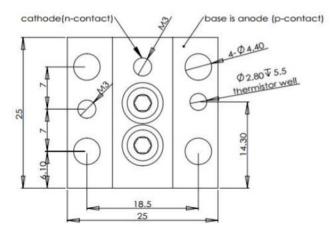
Part Number	LDB808Q100WC	LDB808Q200WC	LDB808Q300WC
Optical Characteristics		·	
Center wavelength (λ _c)	808 nm	808 nm	808 nm
Operation mode	QCW	QCW	QCW
Output power (P _o)	100 W	200 W	300 W
Spectral width (Δλ)	<5 nm	<5 nm	<5 nm
Wavelength Temperature	0.28 nm/°C	0.28 nm/°C	0.28 nm/°C
coefficient			
Fast axis divergence (θ_{\perp})	<39 deg	<39 deg	<39 deg
Slow axis divergence (θ_{\parallel})	<10 deg	<10 deg	<10 deg
Electrical Characteristics			
Threshold current (Ith)	<25 A	<30 A	<30 A
Operating current (I _{op})	≤110 A	≤200 A	≤300 A
Operating voltage (V _{op})	<2.0 V	<2.0 V	<2.0 V
Thermal Characteristics			
Operating temperature (Top)	15 to 35 °C	15 to 35 °C	15 to 35 °C
Storage temperature (T _{stg})	-10 to +60 °C	-10 to +60 °C	-10 to +60 °C
brage terriperature (1stg)	-10 to +00 C	-10 to +00 C	-10 to +00 C



Mechanical Outline (unit: mm)







Notes

- 1. Specifications are subject to change without notice. Ensure that you have the latest specification by contacting us prior to purchase or use of the product.
- 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.
- 4. Take precautions to avoid electrostatic discharge and/or momentary power spikes. A change in the characteristics of the laser or premature failure may result.
- 5. Observing visible or invisible laser beams with human eye directly, or indirectly, can cause permanent damage. Do not look directly into the laser output port.