

LDM-95W High Power Laser Diode Mount and Actively Cooled Heat Sink



95 Watt, Air-Cooled High Power Laser Diode Heat Sink with Integrated Peltier Cooler

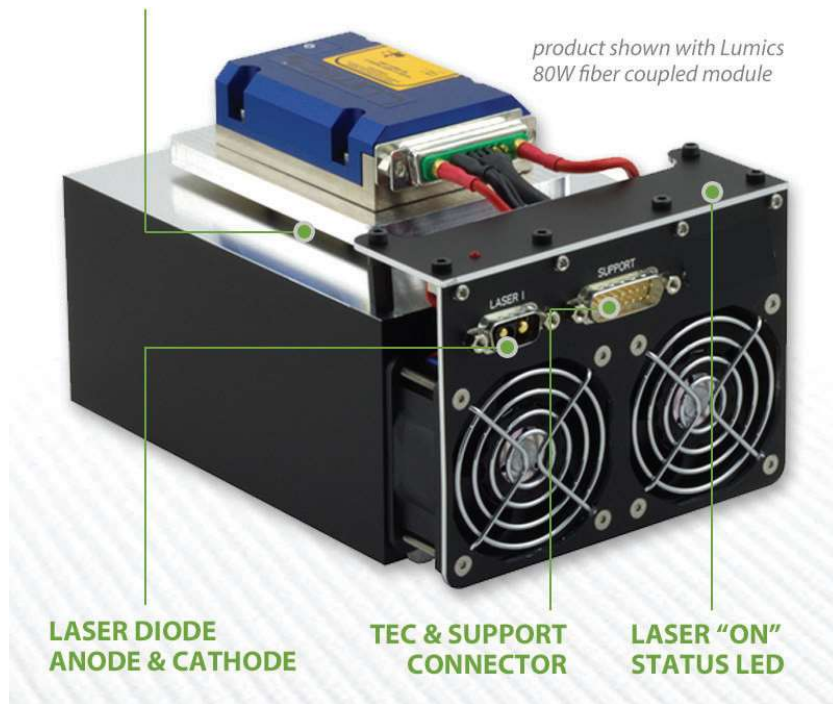
- Laser Diode Mounting Plate Footprint and Lead Wires Pre-Configured for your Laser Diode Package
- Integrated Peltier Cooler for Stable Thermal Control of Laser Diode
- Top Mounting Plates Available for nLight, Jenoptik, LUMICS, Lumentum, DILAS, COHERENT and Others
- Comes with High Current Leads which Match your Laser Diode Pin Diameter

LDM-95W Product Overview:

The LDM-95W high power laser diode heat sink and mounting module is a high performance mounting solution designed for fiber coupled and free-space laser diodes. It is an "all-air" cooling design which precisely stabilizes the temperature of your laser. The surface of the mounting plate was designed with micron level surface flatness and finish tolerances. Standard mounting plates with pre-drilled hole footprint patterns are available for most package styles. A high reliability Peltier element located under the laser mounting plate works with the embedded 10K thermistor to provide fast heat removal and stable temperature control.

PELTIER COOLED MOUNTING PLATE

TEC cooler under mounting plate & embedded 10 k Ω thermistor



GENERAL SPECIFICATIONS

Heat Load Maximum (@25°C):	95 Watts
Laser Diode Mounting Plate Material:	Nickel Plated Copper
Laser Diode Mounting Plate Area:	100 mm x 140 mm
Laser Diode Package Footprint (pre-drilled holes):	Customer Specified at Time of Order
Temperature Uniformity:	< 0.5°C Across Mounting Plate Surface
Laser Diode Mounting Plate Surface Flatness:	< 10 µm
Suggested Temperature Control Range:	10 °C ~ 45 °C

INTEGRATED PELTIER COOLER AND THERMISTOR SPECIFICATIONS

Peltier / TEC Current (max):	6 Amps
Peltier / TEC Voltage (max):	11 Volts
Integrated Temperature Sensor:	10 kOhm Thermistor

INTERFACE CONNECTORS

Laser Diode Anode and Cathode:	DSUB-2W2, female
Peltier / TEC:	DSUB, 15-pin, male

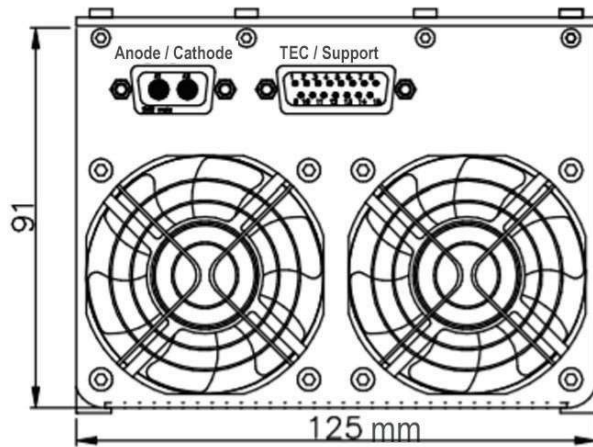
COOLING CAPACITY @ 25°C AMBIENT (ROOM) TEMPERATURE

Laser Diode Set Point @ 15°C ... Waste Heat Removal	70 Watts
Laser Diode Set Point @ 20°C ... Waste Heat Removal	85 Watts
Laser Diode Set Point @ 25°C ... Waste Heat Removal	95 Watts
Laser Diode Set Point @ 30°C ... Waste Heat Removal	105 Watts

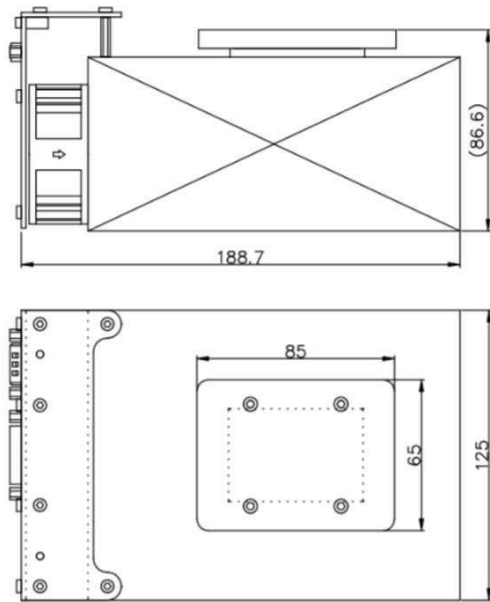
FAN FOR WASTE HEAT REMOVAL (IN HEAT SINK BASE)

Fan Power Input (max):	24 VDC
Total Power Consumption:	7.5 Watts

CONNECTORS



DIMENSIONS (mm)



PRODUCT WARRANTY:

This product is sold with a full one year warranty. It is warranted to be free from defects in material and/or workmanship for a period of one year from the date of shipment. The warranty does not include damage to the product due to customer mishandling or use of the product outside of its specified maximum ratings.

INSTALLATION SUPPORT OR TECHNICAL SUPPORT FOR THIS PRODUCT:

800-887-5065 extension 1
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Part of the Laser Lab Source Group:
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