

LDMOUNT-5A

5A | 4-Pin Butterfly Laser Diode Mount



FEATURES

- Compatible with 14-pin butterfly laser diode package
- Zero insertion force (ZIF) socket holds laser diode
- Drive lasers with up to 5 A
- Control thermoelectric cooler up to 5 A
- TEC Active/Bypass interlock safety circuit
- Mounts to an optics table with standard 1/4-20" screw
- Compatible with nine Wavelength temperature controllers and laser drivers
- Type 1 & Type 2 butterfly packages are supported with pre-soldered connection card
- Other laser types supported with customer soldered Custom Butterfly Card

QUICK AND EASY CONNECTIVITY

Use the zero insertion force (ZIF) socket to quickly and easily mount the 14-pin butterfly package to the LDMOUNT. Additionally, this means that multiple lasers can easily be exchanged within the mount, giving flexibility of operation.

The LDMOUNT comes standard with a card that can operate a Type 1 or Type 2 laser, making it an ideal solution for both telecom lasers as well as pump lasers.

For operation of lasers that are not Type 1 or Type 2, the Custom Butterfly Card is available. This card allows custom soldering to make any desired connections between the laser diode driver, temperature controller, and the laser diode itself.

Connect your laser driver and temperature controller using the two 9-pin DSUB ports. The LDMOUNT is compatible with nine Wavelength temperature controllers and laser drivers, and cables are available for quick connection.

PROTECT YOUR LASER

The LDMOUNT has two built-in safety circuits to protect the mounted laser diode. This includes a laser diode interlock circuit, and a TEC Active/Bypass circuit.

The laser diode interlock circuit must be shorted for laser operation. This allows additional safety protocols to be wired directly to the LDMOUNT. For example, a switch that will open if a door is not closed can be set to trigger shutdown of the laser.

The TEC Active/Bypass circuit allows the LDMOUNT to shutdown laser operation if the temperature is not within a specified range set by the temperature controller. This enables an additional check to make sure that the laser is operating under ideal conditions, ensuring maximum accuracy of the center wavelength.

CURRENT AND STABILITY

The LDMOUNT can deliver up to 5 Amps from both the laser driver and the temperature controller to the butterfly package.

With integrated heatsinking, the LDMOUNT is designed with temperature stability in mind.

406-587-4910

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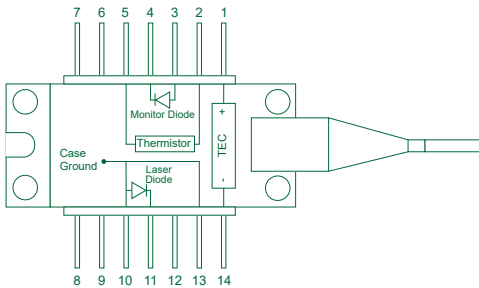
 **WAVELENGTH**
ELECTRONICS

LDMOUNT-5A

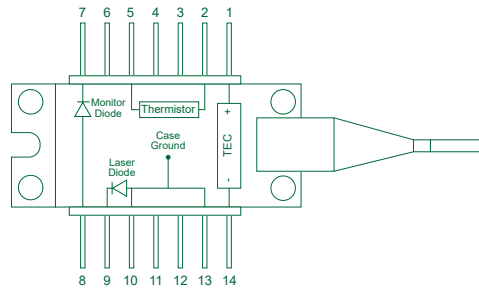
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CONNECT TO LASERS

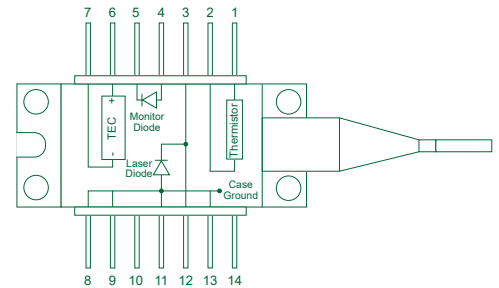
The LDMOUNT comes with a connection card that allows use of the LDMOUNT with standard Type 1 and Type 2 lasers. The schematics for two Type 1 lasers (left and middle) and one Type 2 laser (right) are shown below. These lasers can be operated by simply connecting the card with the proper label showing through the viewing window.



Supported Type 1 Configuration



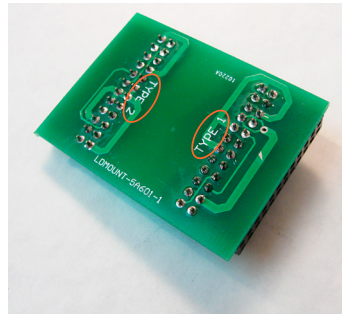
Supported Type 1 Configuration



Supported Type 2 Configuration

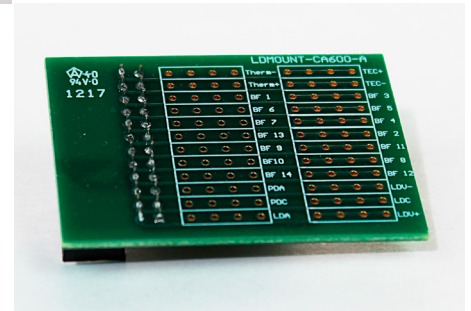
COMPATIBLE PRODUCTS

WAVELENGTH PRODUCT	CABLE
TEMPERATURE CONTROLLERS	
TC LAB Series (no interlock)	WCB315 WCB319
LFI3751	WCB316
WTC3243 with WTC3293	WCB317
PTCxK-CH Series	WCB322
LASER DIODE DRIVERS	
WLD3343 with WLD3393	WCB318
PLDxK-CH Series	WCB321
LDxCHA Series	WCB324
LASER DIODE DRIVERS & TEMPERATURE CONTROLLER	
LDTc Series	WCB320



For Type 1 & Type 2 lasers above, plug in the Connection Card (shown at left) such that the corresponding laser type is visible through the viewing window on the bottom of the LDMOUNT.

For other types of lasers, the LDMOUNT-CU Custom Butterfly Card (shown on right) is available to make any required connections between the butterfly pins and the laser driver/temperature controller.



Additional specifications are available in the product datasheet.

Download at:

www.teamwavelength.com/product/lDMOUNT-5a-butterfly-laser-diode-mount/

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
LDMOUNT-5A	5 A Laser Diode Mount, Type 1 & Type 2
WCB323	Interlock Cable (included)
LDMOUNT-CU	Custom Butterfly Card



Free, effective, and responsive technical support is available to simplify integration of Wavelength products into your OEM design.

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