

DATA SHEET | T8-1000-2A



TO-8 Laser Diode Package Test Fixture

GENERAL PRODUCT INFORMATION

The T8-1000-2A TO-8 Laser Diode Package Test Fixture is designed to allow the user to easily mount and connect to Photodigm's TO-8 Laser Diode package. It provides easy connections to an external laser diode driver controller and an external thermoelectric cooler controller. It also provides a path of heat dissipation through the bottom of the TO-8 header.



FRONT



BACK

FEATURES

- Heat sink for high-powered laser diodes
- 15-Pin D-SUB Male Connector connects to thermistor and thermoelectric cooler (TEC) controller
- 9-Pin D-SUB Male Connector connects to laser diode (LD) controller and photodiode
- (3) ½-20 mounting holes
- (4) 4-40 mounting holes for a 30mm cage system
- Black anodized
- 50.8mm * 50.8mm * 31.75mm

USER GUIDE

Unpacking, Installation, and Laser Safety

- Remove the two (2) 4-40 screws from the clamping plate and remove the plate
- Apply thermal grease to the bottom of the slot where the device under test (DUT) will be installed, careful not to get thermal grease in pin holes
- Align the TO-8 header tab to the receptacle notch on the front of the mount
- Install DUT through the front of the fixture, gently placing TO-8 pins
 - Do not use excessive force or bend the pins
- Once mounted and set in place, place clamping plate over the DUT
- Reinstall the TOP cover using the two (2) 4-40 screws

Removal

- Reverse the installation procedure
- Use caution to not contaminate the LENS of the DUT with thermal grease

CAUTION



- Follow proper ESD handling procedures when handling the DUT
- **It is important to select a TEC controller with user-adjustable output current limits.** Setting the proper limits prevents over-driving and destroying the miniature embedded TEC.
- The use of thermal grease is required for proper heat sink operation
- Ensure thorough coverage but use sparingly
- It is recommended to short the laser diode pins before plugging in the TO-8
- Do not bend the pins on the back of the DUT excessively while installing or removing the fixture

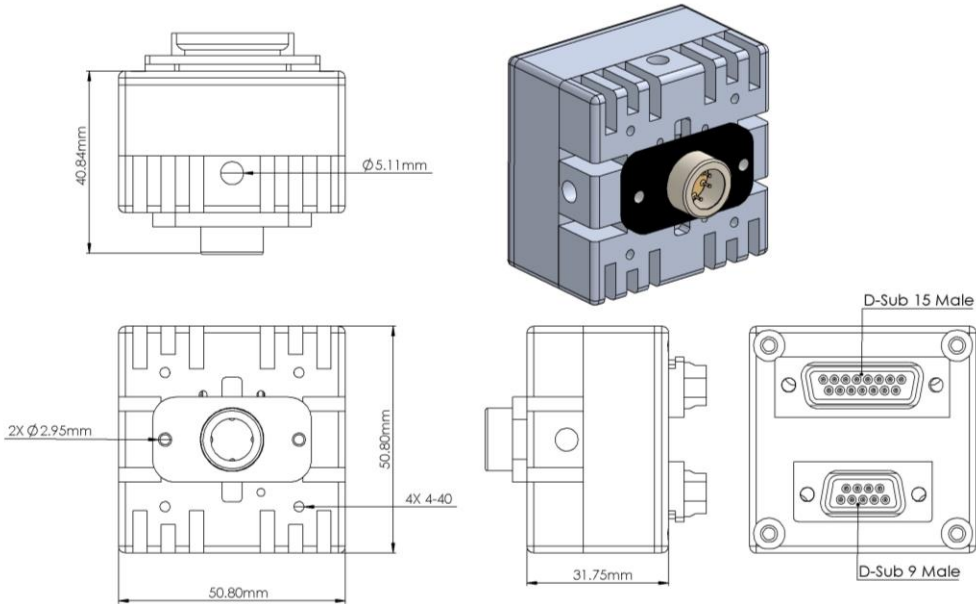
15-Pin D-SUB Male Pin Out		
Pin #	Row	Description
1	Top	Thermoelectric Cooler Anode (TEC+)
2	Top	Not Connected (NC)
3	Top	Thermoelectric Cooler Cathode (TEC-)
4	Top	Not Connected (NC)
5	Top	Not Connected (NC)
6	Top	Not Connected (NC)
7	Top	Thermistor
8	Top	Thermistor
9	Bottom	Not Connected (NC)
10	Bottom	Not Connected (NC)
11	Bottom	Not Connected (NC)
12	Bottom	Not Connected (NC)
13	Bottom	Not Connected (NC)
14	Bottom	Not Connected (NC)
15	Bottom	Not Connected (NC)

9-Pin D-SUB Male Pin Out		
Pin #	Row	Description
1	Top	Photodiode Cathode (PD-)
2	Top	Not Connected (NC)
3	Top	Not Connected (NC)
4	Top	Laser Diode Cathode (LD-)
5	Top	Laser Diode Cathode (LD-)
6	Bottom	Photodiode Anode (PD+)
7	Bottom	Photodiode Anode (PD+)
8	Bottom	Laser Diode Anode (LD+)
9	Bottom	Laser Diode Anode (LD+)

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