

USER GUIDE

LM01 Series

Description

The LM01 series is a complete laser diode module with integrated drive electronics and optics in a simple compact package. This low cost device is designed for experimental and evaluation systems and for OEM use as a component in a variety of pointer laser system.

Models

	LM01GND	LM01RDD
Colour	Green	Red
Wavelength	532 nm	650 nm
Laser Category	2	2

Mounting

The plain brass body should be gripped without crushing over its entire length. A split holder is ideal and provides effective cooling of the laser diode to maximise the operating life. The metal body should be in good thermal contact with the mount, and should not be allowed to exceed the maximum case temperature.

Power Supplies

The laser module is designed to operate from fixed regulated supply voltages of 3.0V. Although the case is isolated from the supply, it is advisable to ensure that neither the case nor supply is floating from ground. If this is not done, in electrically noisy environments, interference on the supply leads could affect the output of the module. In extreme cases, the module may be damaged, so proper attention to supplies and grounding is necessary. Connections are made via a red and black flying leads. The connections are:

Red	+Ve supply
Black	-Ve supply

Operation

The output from the laser is a continuous wave. Rapid switching of the power supply voltage is not recommended. Internal slow start protection is included, but may be defeated if the power supply is interrupted rapidly.

Precautions

Do not connect the power supply leads with power applied. Do not use external laser diode controllers or power supplies with current limit or slow start circuitry. These may prevent correct operation of the unit and increase the laser safety hazard.