IR Laser Module, 850 nm, 20 mW

LDM850

Description

The 850 nm LDM compact laser source has a Ø1.40" by 5.8" housing that contains a laser diode, collimating lens, and automatic power control circuit. The module includes a built in shutter and SM1 internal thread for mounting with an extensive range of optomechanical devices. It can be mounted to an optical table using one of our C1512, C1513, or VC3C V-groove mounts. The module features a remote interlock connection, key-lock power switch, enable/disable toggle switch, a laser on indicator LED, and power adjustment potentiometer.

Specifications

Specification	Value
Wavelength, Typical	850 nm
Wavelength, Min/Max	840 - 860 nm
Beam Diameter[a]	3.5 mm x 4.4 mm
Power, Adjustable[b]	20 mW

a. Measured 3 m from module. Beam shape is elliptical.
b. The maximum power is given for an operating temperature of 25 °C. When operated at a temperature other than this, the maximum output will vary.

Specification	Value
Stability, Short-Term (30 min)	0.01 dB
Stability, Long-Term Drift (24 hr)	0.1 dB
Operating Temperature	10 - 40 °C
Storage Temperature	5 - 50 °C
Power Supply @ ±10% (Included)	100 - 240 VAC, 0.48 A 50 - 60 Hz Output: 9 VDC @ 2.2 A

Drawings