TECRL-633



Thermo-Electrically Cooled Red Lasers



TECRL-Series Laser Product Features

- Integrated TEC and Laser Controller
- Low RMS Noise
- **Excellent Power & Wavelength Stability**
- Compact Size
- Long Life-Time & Low Power Consumption

TECRL-Series Laser Applications

- Bioanalytical
- Measurement
- Confocal Microscopy

TECRL-Series Thermo-Electrically Cooled Red Laser is a compact self-contained, highly reliable laser operating at very stable wavelength and power. The build-in temperature controller stabilizes the laser temperature within ±0.01°C. The laser output power stability is better than 1% over long term. Extremely stable power, low noise and excellent beam pointing stability of this laser makes it ideal for bioanalytical, measurement and imaging applications. It is powered by a wall mount power adaptor (supplied with the laser) for plug & play operation.

TECRL-Series lasers can be customized to include beam shaping optics and modulation.

Operational Hazard-Semiconductor Laser Diode Module: This laser module emits radiation that is visible and harmful to human eye. When in use, do not look directly into the laser emitting aperture. Direct viewing of laser diode emission at close range may cause eye damage.

Tel: (416) 363-3332 Fax: (416) 363-3112

Limited Warranty: One year. No warranty coverage for disassembly, modifications or damage due to abuse or misapplication.

World Star Tech

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Specifications

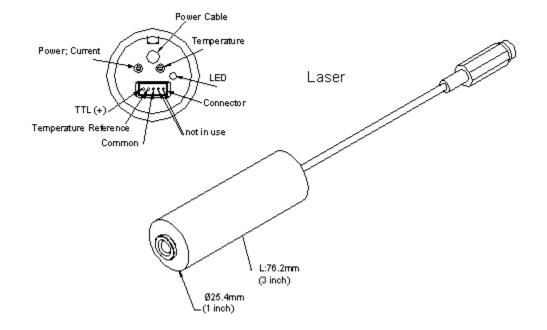
OPTICAL	
Wavelength	633 nm
Optical Output Power	10-75 mW
Laser Power Stability	< 0.5%
Laser Structure	Single Transverse Mode
Laser RMS Noise	< 0.5%
Polarization Ratio	> 100:1
Beam Size	5 mm
Divergence (full)	< 0.5mrad
Beam Pointing Stability	$< \pm 10 \ \mu rad$
Warm-Up time	< 1 min
ELECTRICAL	
Operating Voltage	3.3 V DC
Operating Current	< 1 A

MECHANICAL/ENVIRONMENTAL

Dimension	1"(Dia) x 3" (L)
Operating Temperature	+10⁰C to +40℃
Storage Temperature	-40⁰C to +80℃
Heat Sink Requirements	Recommended for extended use

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Thermo-Electrically Cooled Red Laser Modules :Mechanical Dimensions

TECRL-Series Laser Ordering Information

Part# TECRL-pppG(c)-λλλ

Option	Meaning	Values
ррр	Laser output power (mW)	10, 25, 50, 75
(c)	Circular laser diode beam (optional)	С
ууу	Wavelength (nm)	633 +/-3 nm
TTL	TTL Modulation	Max 3KHz

Example Part Number : TECRL-10G-633-TTL (3.5mW, elliptical beam, 635 nm with TTL modulation)



Class IIIB Modules sold solely for use in OEM equipment; OEM is responsible for compliance with all safety regulations.

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