

# **DATASHEET**



#### **FEATURES**

- Integrated TEC and Laser Controller
- **Excellent Power &** Wavelength Stability
- Low RMS Noise
- ✓ Compact Package

#### **APPLICATIONS**

- Measurement
- Bioanalytical
- Confocal Microscopy

#### **Operational Hazard of Laser Module**

This laser module emits radiation that is visible/invisible 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.





# **Limited Warranty**

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





TECIRL Series Thermoelectrically Cooled Laser is a compact, self-contained, highly reliable laser operating at a very stable wavelength and power. The builtin temperature controller stabilizes the laser temperature within +/- 0.01C. The laser output stability is <1% over the long term. Extremely stable power, low noise and excellent beam pointing stability of this laser makes it ideal for bioanalytical, measurement and imaging applications.

TECIRL Series lasers are provided with a power supply for plug and play operation

TECIRL Series lasers can be customized to add beam shaping optics, external modulation and multimode fibers

## **SPECIFICATIONS**

Wavelength	720.1/ 5	
wavelength	730+/- 5 nm	
Optical Output Power	10-30 mW	
Laser Power Stability	<0.5%	
Laser RMS Noise	<0.5%	
Polarization Ratio	100:1	
Collimated Beam Size	5 mm (typical)	
Beam Shape	Elliptical	
Divergence (full angle)	< 1 mrad	
Warm-Up time	<1 min	

### **ELECTRICAL**

Operating Voltage	3.3 V DC (power supply provided for plug and play)
Operating Current	< 1.2 A
Control Circuit	APC

#### **MECHANICAL**

Dimension, mm	25.3 (D)x 76.2 (L)
Operating Temperature	+10°C to +40°C
Storage Temperature	-40°C to +80°C
Heat Sink	Recommended for extended use

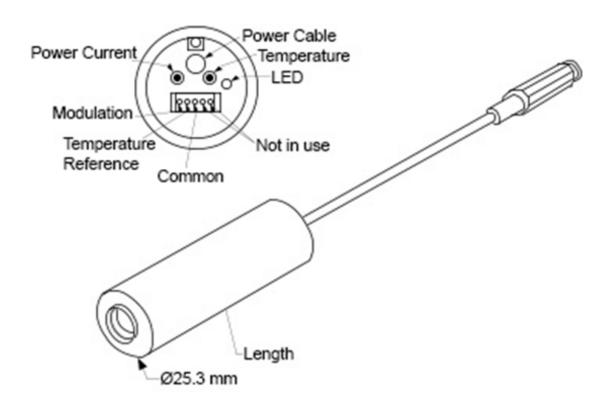








# **OUTLINE DRAWING**



# **TECIRL ORDERING INFORMATION**

# PART# TECIRL-pppG(c)-λλλ

OPTION	DESCRIPTION	VALUES
ppp	Laser output power (mW)	10-30mW
(c)	Circular laser diode beam (optional)	С
Λλλ	Wavelength (nm)	730 nm
TTL	External TTL Modulation	Max 1MHz

Example Part # for 20 mW, standard elliptical beam, 730 nm laser with external TTL: TECIRL-20G-730-TTL-

