

# 0.5 mW SELF-CONTAINED RED HELIUM NEON LASER MODEL: 05-LLR-811

## OUTPUT SPECIFICATIONS

CW Power Output (mW)	0.5 to 1.0
Wavelength (nm)	632.8
Transverse Mode	> 90% TEM <sub>00</sub>
Polarization	Random
Beam Diameter at 1/e <sup>2</sup> Points	0.47 ± 5%
Beam Divergence (mrad)	1.70 ± 5%
Longitudinal Mode Spacing (MHz)	1078
Mode Sweeping	< 15%
Long Term Power Drift (8 hrs)	< 10%
Amplitude Noise, 30 Hz to 30 MHz (peak-to-peak)	< 2.8%
Warmup to > 95% of Maximum Power (minutes)	15

## ENVIRONMENTAL SPECIFICATIONS

### OPERATING

### NON-OPERATING

Temperature (°C)	-20 to +40	-40 to +80
Altitude (meters)	0 to 3000	0 to ∞
Relative Humidity (% , non-condensing)	0 to 90%	0 to 99%
Mechanical Shock (g)	< 1 for < 11 msec	< 25 for < 11 msec < 100 for < 1 msec

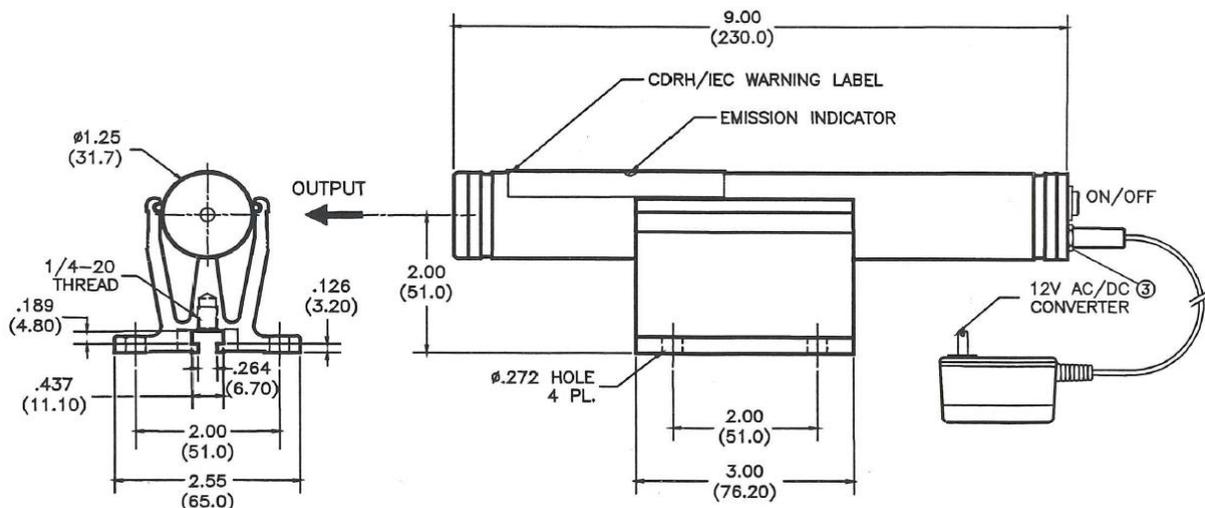
**When ordering, please specify product number as follows:**

**05-LLR-811:** Laser head only.

**05-LLR-811-230:** Includes 230V AC/DC converter with Schuko plug, laser head holder, and carrying case.

**05-LLR-811-249:** Includes 120V AC/DC converter with NEMA 1-15 plug, laser head holder and carrying case.

Please contact factory for other options. Specifications are subject to change without notice.



## UNIVERSAL MOUNTING BLOCK

This laser head can be used alone or spring-clamped in the universal mounting block. The laser head and block combination can either be used as free-standing unit or it can be rigidly mounted with three arrangements:

1. 4 clearance holes in the block base, compatible with both the standard inch and metric patterns available on Melles Griot optical tables, breadboards and many optical components.
2. A "T" slot running the length of the base will accept the head of a standard ¼ -20 hex head bolt and capture it to prevent rotation. The bolt can be attached to a tilt-table or optical post, etc.
3. A ¼-20 tapped hole in the center of the base, suitable for use with optical posts up to 20mm in diameter.

**CLASSIFICATION:**

**CDRH II / IEC 2**

**MAXIMUM POWER OUTPUT:**

**1mW**

### LABEL INFORMATION:

