



Self-Contained Cylindrical Helium Neon Laser

- CDRH Class II system (IEC Class 2)
- Convenient carrying and storage case included
- Snap-on base included
- CE compliant (230-Vac version)

This compact, self-contained, cylindrical helium neon laser from CVI Melles Griot is ideal for general alignment, component testing, and laboratory use, as well as for educational and high-volume OEM applications. The unit comes with a snap-on base with mounting holes on two-inch centers for tabletops and other flat surfaces and an ac/dc converter, all in a convenient carrying and storage case.

Self-Contained Cylindrical Helium Neon Laser

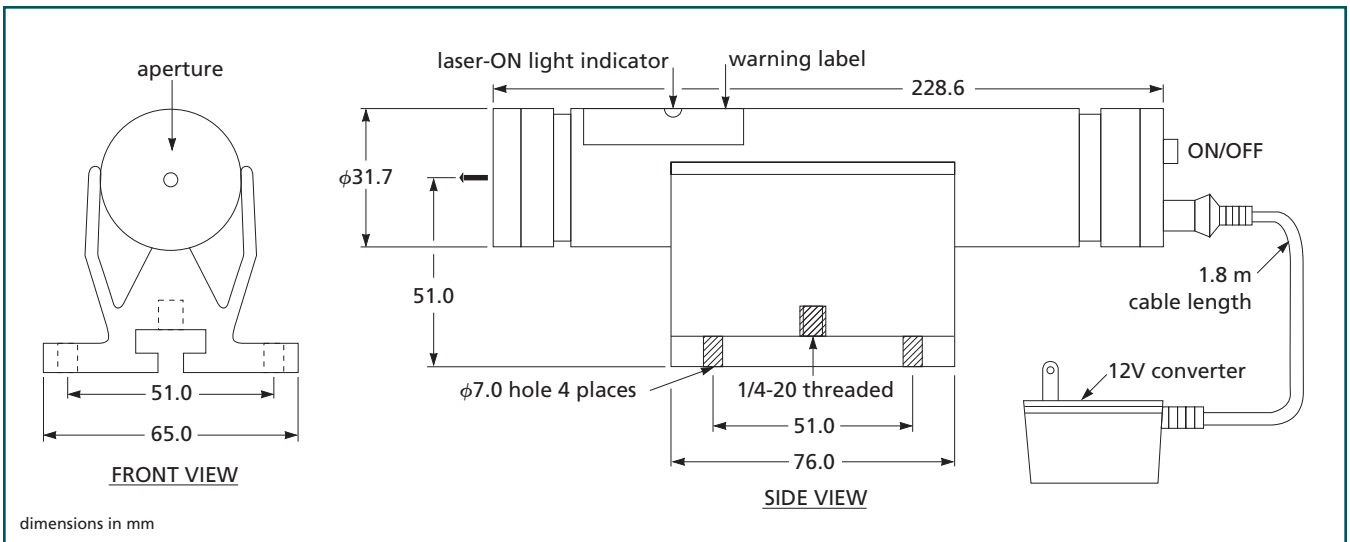
cw Output Power (mW)	PART NUMBER*
0.50–0.95	05 LLR 811

*Add the appropriate suffix to the product number to indicate input voltage:
-249 for 115 Vac or -230 for 230 Vac.

SPECIFICATIONS:

Self-Contained Cylindrical Helium Neon Laser

Beam Characteristics	
Output Wavelength	633 nm
Transverse Mode	TEM ₀₀ (>95%)
Longitudinal Mode Spacing	1078 MHz
Beam Dimension (1/e ²)	0.47 mm
Far-Field Divergence (1/e ²)	1.70 mrad
Polarization	Random
Stability Characteristics	
Amplitude Noise <i>rms</i>	<3% (30 Hz to 10 MHz)
Mode Sweeping	<15%
Operating Characteristics	
Warm-up Time	~15 minutes to 95% of maximum power
Electrical Characteristics	
Input Voltage	115 Vac or 230 Vac ± 10% (specify at time of purchase)
Input Frequency	50–60 Hz
Safety and Regulatory Compliance	
CDRH Class	II
IEC Class	2
Regulatory Compliance	CE Compliant (230-Vac only)



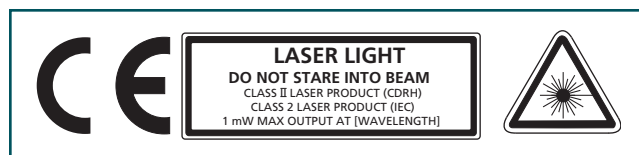
05 LLR 811 cylindrical helium neon package



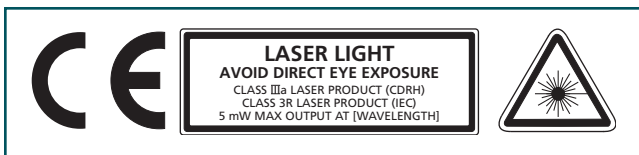
Helium Neon Laser Emission Compliance Labels

All CVI Melles Griot helium neon laser systems are designed, tested, and manufactured for compliance with applicable international and laser safety standards, including CDRH performance standard 21 CFR 1040 and European directives 89/336/EEC and 73/23/EEC. All systems designed for 230-Vac power input are fully CE compliant.

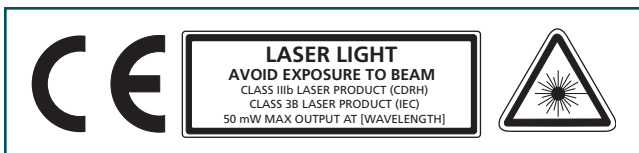
The labels below are attached, as indicated, to all complying product.



Laser safety label for all Class II helium neon lasers with visible output



Laser safety label for all Class IIIa helium neon lasers with visible output



Laser safety label for all Class IIIb helium neon lasers with visible output

*Note: Wavelength = 543.5 nm, 594 nm, or 632.8 nm