

1 mW 632.8nm (RED) HELIUM NEON LASER

MODEL: 05-LHP-111

OUTPUT SPECIFICATIONS

CW Power Output (mW)	> 1.0
Wavelength (nm)	632.8
Transverse Mode	> 90% TEM ₀₀
Polarization	Linear > 500:1
Beam Diameter at 1/e ² Points	0.59 ± 5%
Beam Divergence (mrad)	1.35 ± 5%
Longitudinal Mode Spacing (MHz)	687
Mode Sweeping	< 5%
Long Term Power Drift (8 hrs)	< 5%
Amplitude Noise, 30 Hz to 30 MHz (peak-to-peak)	< 2.8%
Warmup to > 95% of Maximum Power (minutes)	< 15
Beam Position Drift From Cold Start (mrad)	< 0.05
Beam Position Drift After 15 Minute Warmup (mrad)	< 0.03

ELECTRICAL SPECIFICATIONS

Start Voltage (kVdc)	< 10
Recommended Operating Current (mA)	6.5 ± 0.2
Operating Voltage (VDC)	1790 ± 100
Recommended Power Supply	05-LPM-911-065 (AC) 05-LPM-830-065 (DC)

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 99%	0 to 99%
Mechanical Shock (g)	< 1 for < 11 msec	< 25 for < 11 msec < 100 for < 1 msec

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

