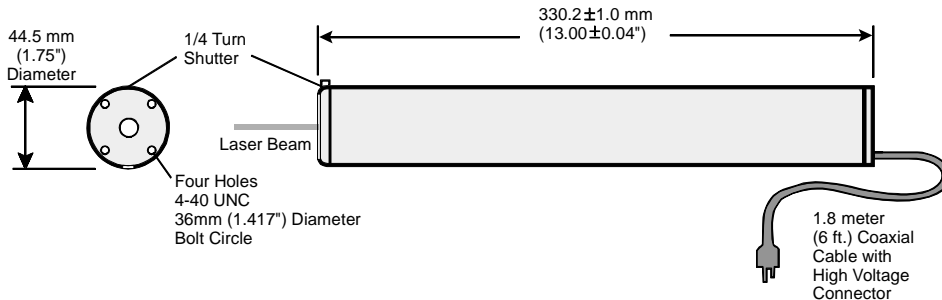


**TECHNICAL DATA**  
**LHGR-0050**  
**CYLINDRICAL HELIUM-NEON LASER HEAD**

Wavelength	543 nm
Minimum Output Power	0.5 mW
Power 3 Seconds After Turn-On	> 75%
Polarization	Random
Mode Structure	TEM <sub>00</sub> > 99%
Beam Diameter	0.64 mm
Beam Divergence	1.07 mrad
Longitudinal Mode Spacing	566 MHz
Beam Drift After 20 Minute Warm-Up	< 0.2 mrad
Long Term Beam Drift	< 0.05 mrad
Noise (30 Hz - 10 MHz)	< 1% rms
Starting Voltage	< 10 kVDC
Operating Voltage	1800 VDC
Series Resistors in Housing	94 KΩ
Operating Current	5.25 mA
Shock	15 g for 11 msec
Weight	600 grams
Dimensions	
Length	330.2±1.0mm (13.00 ±0.04")
Diameter	44.5±0.5mm (1.75±0.02")
Maximum Output Power	5.0 mW
CDRH Classification	IIIa
Recommended Power Supply	LPS or CPS

**ENVIRONMENTAL SPECIFICATIONS**

	<u>Operating</u>	<u>Non-Operating</u>
Temperature	-20 - +70° C	-40 - +80° C
Humidity	≤ 80%	≤ 95%
Altitude	0-3,000 meters	0-6,000 meters



**Research Electro-Optics, Inc.**

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