

# TECHNICAL DATA

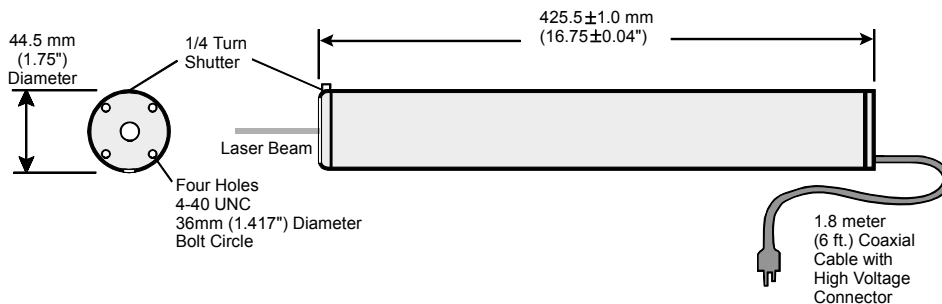
## LHOP-0201

### CYLINDRICAL HELIUM-NEON LASER HEAD

Wavelength	612 nm
Minimum Output Power	2.0 mW
Power 3 Seconds After Turn-On	> 75%
Polarization	Linear > 500:1
Mode Structure	TEM <sub>00</sub> > 99%
Beam Diameter	0.75 mm
Beam Divergence	1.04 mrad
Longitudinal Mode Spacing	441 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	2300 VDC
Series Resistors in Housing	94 K $\Omega$
Operating Current	5.25 mA
Shock	15 g for 11 msec
Weight	650 grams
Dimensions	
Length	425.5 $\pm$ 1.0 mm (16.75 $\pm$ 0.04")
Diameter	44.5 $\pm$ 0.5 mm (1.75 $\pm$ 0.02")
Maximum Output Power	5.0 mW
CDRH Classification	IIIa
Recommended Power Supply	LPS or CPS

### ENVIRONMENTAL SPECIFICATIONS

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



**Research Electro Optics, Inc.**  
**5505 Airport Boulevard Boulder, Colorado 80301**  
 Phone - (303) 938-1960 Fax - (303) 447-3279