

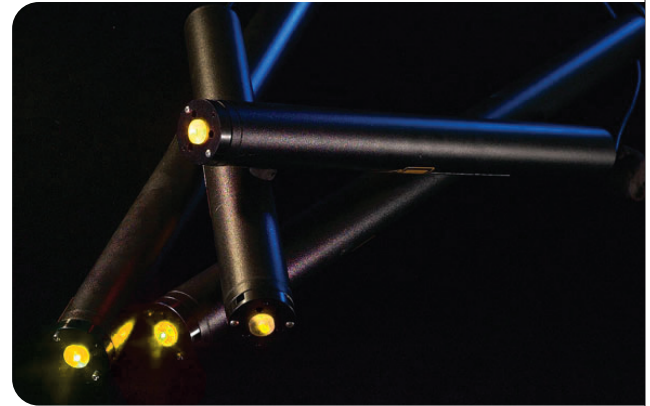
Yellow (594 nm) Cylindrical Helium-Neon Laser

REO has been building lasers for over 20 years, and is now the world's leading manufacturer of high performance Helium-Neon lasers for applications such as confocal microscopy, ellipsometry, particle counting, food sorting and other demanding instrumentation applications.

REO has achieved this leadership position because we possess a combination of design and fabrication capabilities that are unique in our industry. For example, we are the only HeNe manufacturer to polish and coat its own laser mirrors in-house. This allows us to employ a variety of specialized techniques in both substrate polishing and thin film coating that minimize scatter and absorption, and yield very high reflectivity. Since the mirrors are the most critical components in a HeNe laser resonator, the result is maximum power for a given laser size, long operational lifetime, high stability and outstanding reliability.

In addition to providing a technically superior product, we're also focused on meeting the practical needs of OEM customers. This means supplying a product that meets a customer's specific needs in terms of packaging, performance, functionality, delivery schedule and cost. We accomplish this by leveraging the extensive technical expertise of our design and fabrication staffs, together with the use of flexible manufacturing processes.

If you need Helium-Neon lasers for performance critical applications, then **think REO**.



Features:

- Long Lifetime
- Superior Beam Pointing Stability
- Excellent Power Stability
- High Thermal Stability

Yellow (594 nm) Cylindrical Helium-Neon Laser Head Specifications

	LHYP-0201
Optical	
Minimum Output Power (mW)	2.0
Maximum Output Power (mW)	5.0
Power 3 Seconds After Turn-On (%)	> 75
Linear Polarization	>500:1
Mode Structure	TEM ₀₀ > 99%
Beam Diameter (mm)	0.74
Beam Divergence (mrad)	1.03
Longitudinal Mode Spacing (MHz)	416
Beam Drift After 20 Minute Warm-Up (mrad)	< 0.2
Long Term Beam Drift (mrad)	< 0.05
RMS Noise (30 Hz - 10 MHz)	< 1%
CDRH/CE Classification	IIIa/3R
Electrical	
Starting Voltage (kVDC)	< 10
Operating Voltage (VDC)	2300
Series Resistors in Housing (kΩ)	94
Operating Current (mA)	5.25
Recommended Power Supply	32880
Mechanical	
Weight (grams)	650
Shock	15 g for 11 msec
Operating Temperature (°C)	-20 to +70°
Non-Operating Temperature (°C)	-40 to +80°
Operating Humidity (%)	≤80
Non-Operating Humidity (%)	≤95
Operating Altitude (m)	0 to 3,000
Non-Operating Altitude (m)	0 to 6,000

