



**REO**  
precision optical solutions

Covering the full spectrum of your photonics needs.

Think **REO**

## Frequency and Intensity Stabilized 633 nm Helium-Neon Laser

For demanding applications in interferometry, metrology, instrumentation, and research, REO's stabilized Helium-Neon Laser provides the benefits of active frequency and intensity stability, together with exceptional ruggedness and long lifetime.

Constructed using REO's ultra-low loss optics and our own unique cavity design, these lasers are guaranteed to deliver greater than 1 mW of single longitudinal mode, polarized output, with a long-term frequency variation less than 3 MHz.

In addition to providing a technically superior laser, 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*.



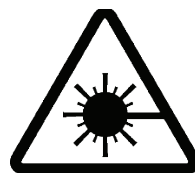
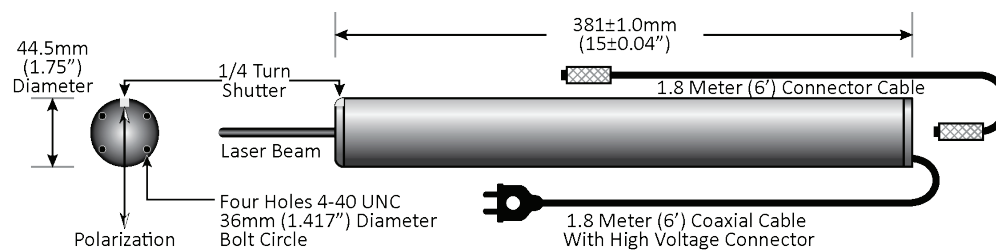
### Features:

- Frequency or Intensity Stabilized
- High Output Power
- Long Coherence Length
- Long Lifetime
- OEM Configurations Available



## Frequency and Intensity Stabilized 633 nm Helium-Neon Laser

	32734
<b>Optical</b>	
Minimum Output Power (mW)	>1.5
Linear Polarization	>800:1
Spatial Mode	TEM <sub>00</sub>
Beam Diameter (mm)	0.7
Beam Divergence (mrad)	1.2
Temperature Range to Maintain Lock (°C)	15 - 30
Time to Lock (minutes)	<30
CDRH/CE Classification	IIIa/3R
<b>Frequency Stabilized Mode</b>	
Frequency Stability over 1 minute (MHz)	±1
Frequency Stability over 1 hour (MHz)	±1
Frequency Stability over 8 hours (MHz)	±2
Intensity Stability (%)	±1
Frequency Shift with Temperature (MHz/°C)	<2
<b>Intensity Stabilized Mode</b>	
Intensity Stability over 1 minute (%)	±0.1
Intensity Stability over 1 hour (%)	±0.2
Frequency Stability over 1 minute (MHz)	±3
Frequency Stability over 1 hour (MHz)	±5



LASER RADIATION  
AVOID DIRECT EXPOSURE  
TO BEAM