

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 stabilization, 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

Specifications

	Model 39727	Model 32734
Optical		
Minimum Output Power (mW)	>1.0	>1.5
Linear Polarization	>800:1	>800:1
Spatial Mode	TEM 00	TEM 00
Beam Diameter (mm)	0.7	0.7
Beam Divergence (mrad)	1.2	1.2
Temperature Range to Maintain Lock (°C)	15 - 30	15 - 30
Time to Lock (minutes)	<30	<30
CDRH/CE Classification	IIIa/3R	IIIa/3R
Frequency Stabilized Mode		
Frequency Stability over 1 minute (MHz)	±1	±1
Frequency Stability over 1 hour (MHz)	±1	±1
Frequency Stability over 8 hours (MHz)	±2	±2
Intensity Stability (%)	±1	±1
Frequency Shift with Temperature (MHz/°C)	<2	<2
Intensity Stabilized Mode		
Intensity Stability over 1 minute (%)	±0.1	±0.1
Intensity Stability over 1 hour (%)	±0.2	±0.2
Frequency Stability over 1 minute (MHz)	±3	±3
Frequency Stability over 1 hour (MHz)	±5	±5

LASER RADIATION
AVOID EXPOSURE TO BEAM
CLASS 3R LASER PRODUCT