



Stabilized He-Ne laser – LGS series

LGS series – preliminary specifications:

LASOS® He-Ne laser series

The LASOS® He-Ne laser tubes and modules have a robust mechanical design, excellent beam quality and long service life of up to 30.000 hours.

He-Ne lasers are an essential tool for high precision measurement. LASOS expanded its He-Ne product range by a frequency and power stabilized He-Ne module.

The LASOS® He-Ne laser series provide the ideal products for applications in:

- Spectroscopy
- Interferometry
- Confocal microscopy
- Positioning
- Industrial measurement
- Metrology
- Basic Research
- Medical
- Science and education

Customized solutions for specific applications are possible

Wavelength	632.8 nm	
Minimum output power	>0.6 mW	> 1.2 mW
Beam diameter	0.49 ±0.05 mm	0.63 ± 0.05 mm
Beam divergence	<1.8 mrad	< 1.6 mrad
Mode purity	>95% TEM00	
Polarization ratio	>500:1	
Warm-up time	20 min	
Stabilized Mode		
Power stability	±0.3%	
Frequency stability	±10 MHz	
Coherence length	30 m	
Electrical Specifications		
Operation current	3,5 mA	5 mA
Operation voltage	1250 ± 100V	1700 ± 100 V
Ballast resistor	~80 kOhm	~80 kOhm
Ignition Voltage	<7 kV	< 7 kV
Stabilization unit supply voltage	15 VDC	
Stabilization unit supply current	<1 A	
Mechanical Dimensions		
Overall length	256 ± 3 mm	330 ± 3 mm
Ø (Tube)	35,0 ±0,2 mm	
Cable length	1750 mm	
Environmental Conditions		
Operating temperatures	15 ... 35°C	
Operating humidity	<80 % non-condensing	
Storage temperatures	-40 ... 80 °C	
Storage humidity	<95 % non-condensing	

LASOS

For worldwide photonics

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