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## Model 1103P, 2mW Linear Polarization, Lumentum HeNe Laser



Lumentum High Performance Helium-Neon Lasers



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**General**

Warm-Up Time (minutes):  
10

Manufacturer:  
Lumentum

Type of Laser:  
HeNe

Laser Class - CDRH:  
IIIa

1103P

Model Number:

## Physical & Mechanical Properties

Pointing Stability after Warm Up (mrad°C):  
N/A

Weight (lbs):  
0.54

Length of Laser Head (inches):  
9.50

Static Alignment:  
Centered to Outer Cylinder:  $\pm 0.01''$   
Parallel to Outer Cylinder:  $\pm 1.0$  mrad

Pointing Stability (mrad°C):  
From Cold Start, 25°:  $< 0.1$

Diameter of Laser Head (inches):  
1.245

## Optical Properties

Polarization:  
500:1

Spatial Mode:  
TEM<sub>00</sub>

Wavelength (nm):  
632.80

Beam Diameter Tolerance (%):  
 $\pm 3$

Beam Divergence Tolerance (%):  
 $\pm 3$

Maximum Drift:  
Mean Power over 8 hrs:  $\pm 2.5$

Beam Diameter (mm):  
0.63

Beam Divergence (mrad):  
1.30

Color:  
Red

Mode Purity (TEM<sub>00</sub>):  
>95%

## Electrical

Output Power (mW):  
2

RMS Noise:  
30 Hz - 10 MHz 0.1%

Longitudinal Mode Spacing, Nominal (MHz):  
730

Minimum Output Power, TEM<sub>00</sub> (mW):  
2.0

## Hardware & Interface Connectivity

Power Supply:  
[#11-380](#) (110/220V AC), [#11-384](#) or [#18-972](#) (12V DC), [#11-385](#) (24V DC), [#11-387](#) (110/220V AC)

Output Type:  
Free Space

## Environmental & Durability Factors

Operating Temperature (°C):  
-40 to +70

Operating Humidity:  
0 to 100%, non-condensing

Storage Temperature (°C):  
-40 to +150

## Regulatory Compliance

RoHS 2015:  
[Compliant](#)

Certificate of Conformance:  
[View](#)

REACH 241:  
[Compliant](#)

## Product Details

110V or 220V power supplies sold separately. These HeNe lasers comply with 21CFR1040 and IEC 825-1:1993.

- Power Options from 0.5 - 22.5mW
- Improved Stability
- Ideal for Interferometry and Metrology Applications
- Random or Linear Polarization Options

Lumentum High Performance Helium-Neon Lasers feature a patented close-cathode design that provides improved thermal and power stability. They also utilize a patented field concentrator design that enables fast turn-on. These Lumentum HeNe lasers also feature precisely aligned cylindrical housings, with cylindrical laser heads and electrical interconnect systems used to simplify system integration. Lumentum High Performance Helium-Neon Lasers' rugged design is ideal for even the most demanding applications. They are exemplary for use within interferometry and metrology applications.

**Note:** Please exercise caution when using a user-provided power supply to not exceed the electrical specifications of the laser as this may cause damage and void the warranty. These HeNe lasers comply with 21CFR1040 and IEC 825-1:1993. Lumentum was previously known as JDSU.

## Technical Information

### Beam Expander Mounting Configurations

Click on an item below to be brought to that item's product page.

