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



Lumentum High Performance Helium-Neon Lasers



Stock #64-104 **1 In Stock**

⊖ 1 ⊕ **SS\$1,603⁰⁰**

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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: ± 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:
TEM₀₀

Wavelength (nm):
632.80

Beam Diameter Tolerance (%):
 ± 3

Beam Divergence Tolerance (%):
 ± 3

Maximum Drift:
Mean Power over 8 hrs: ± 2.5

Beam Diameter (mm):
0.63

Beam Divergence (mrad):
1.30

Color:
Red

Mode Purity (TEM₀₀):
>95%

Electrical

Output Power (mW):
2

RMS Noise:
30 Hz - 10 MHz 0.1%

Longitudinal Mode Spacing, Nominal (MHz):
730

Minimum Output Power, TEM₀₀ (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.

