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Model 1144, 15mW Random Polarization, Lumentum HeNe Laser



Lumentum High Performance Helium-Neon Lasers



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⊖ 1 ⊕ C\$4,221⁰⁰

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General

20 **Warm-Up Time (minutes):**

Lumentum **Manufacturer:**

HeNe **Type of Laser:**

IIIb **Laser Class - CDRH:**

1144 **Model Number:**

Physical & Mechanical Properties

Pointing Stability after Warm Up (mrad°C):
After 15 min.: <0.3

Weight (lbs):
2.6

Length of Laser Head (inches):
25.00

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

Pointing Stability (mrad°C):
From Cold Start, 25°: <0.2

Diameter of Laser Head (inches):
1.74

Optical Properties

Polarization:
Random

Spatial Mode:
TEM₀₀

Wavelength (nm):
632.80

Beam Diameter Tolerance (%):
 ± 3

Beam Divergence Tolerance (%):
 ± 3

Maximum Drift:
Mean Power over 8 hrs: ± 2

Beam Diameter (mm):
0.70

Beam Divergence (mrad):
1.15

Color:
Red

Mode Purity (TEM₀₀):
>95%

Electrical

Output Power (mW):
15

RMS Noise:
30 Hz - 10 MHz 0.5%

Longitudinal Mode Spacing, Nominal (MHz):
257

Minimum Output Power, TEM₀₀ (mW):
15.0

Hardware & Interface Connectivity

Power Supply:
[#11-391](#) (110/220VAC)

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.

