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## Model 1145, 22.5mW Random Polarization, Lumentum HeNe Laser



Lumentum High Performance Helium-Neon Lasers



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**General**

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

Lumentum **Manufacturer:**

HeNe **Type of Laser:**

IIIb **Laser Class - CDRH:**

1145 **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:  $\pm 1.0$  mrad

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

**Diameter of Laser Head (inches):**  
1.74

## Optical Properties

**Polarization:**  
Random

**Spatial Mode:**  
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:  $\pm 2$

**Beam Diameter (mm):**  
0.70

**Beam Divergence (mrad):**  
1.15

**Color:**  
Red

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

## Electrical

**Output Power (mW):**  
22.5

**RMS Noise:**  
30 Hz - 10 MHz 0.5%

**Longitudinal Mode Spacing, Nominal (MHz):**  
257

**Minimum Output Power, TEM<sub>00</sub> (mW):**  
22.5

## 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.

