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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

2.6 **Weight (lbs):**

25.00 **Length of Laser Head (inches):**

Static Alignment:
Centered to Outer Cylinder: ±0.01"
Parallel to Outer Cylinder: ±1.0 mrad

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

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

Optical Properties

Random **Polarization:**

TEM₀₀ **Spatial Mode:**

632.80 **Wavelength (nm):**

±3 **Beam Diameter Tolerance (%):**

±3 **Beam Divergence Tolerance (%):**

Mean Power over 8 hrs: ±2 **Maximum Drift:**

0.70 **Beam Diameter (mm):**

1.15 **Beam Divergence (mrad):**

Red **Color:**

>95% **Mode Purity (TEM₀₀):**

Electrical

22.5 **Output Power (mW):**

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

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

22.5 **Minimum Output Power, TEM₀₀ (mW):**

Hardware & Interface Connectivity

[#11-391](#) (110/220V AC) **Power Supply:**

Free Space **Output Type:**

Environmental & Durability Factors

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

0 to 100%, non-condensing **Operating Humidity:**

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

Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Compliant](#) **REACH 241:**

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.

