

## Model 1144P, 15mW Linear Polarization, Lumentum HeNe Laser



Lumentum High Performance Helium-Neon Lasers



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### SPECIFICATIONS

#### General

20 Warm-Up Time (minutes):

Lumentum Manufacturer:

HeNe	Type of Laser:
IIIb	Laser Class - CDRH:
1144P	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: ±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

500:1	Polarization:
TEM <sub>00</sub>	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 (TEM <sub>00</sub> ):

## Electrical

15	Output Power (mW):
30 Hz - 10 MHz 0.5%	RMS Noise:
257	Longitudinal Mode Spacing, Nominal (MHz):
15.0	Minimum Output Power, TEM <sub>00</sub> (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:
	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.

