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## Model 1135P, 10mW Linear Polarization, Lumentum HeNe Laser



Lumentum High Performance Helium-Neon Lasers



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### General

Warm-Up Time (minutes):  
15

Manufacturer:  
Lumentum

Type of Laser:  
HeNe

Laser Class - CDRH:

## Model Number:

1135P

## Physical &amp; Mechanical Properties

**Pointing Stability after Warm Up (mrad/°C):**  
After 15 min: <0.02

## Weight (lbs):

1.5

## Length of Laser Head (inches):

19.13

## 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°: <0.1

## Diameter of Laser Head (inches):

1.74

## Optical Properties

## Polarization:

500:1

## 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:  $\pm 3$ 

## Beam Diameter (mm):

0.68

## Beam Divergence (mrad):

1.20

## Color:

Red

Mode Purity (TEM<sub>00</sub>):

&gt;95%

## Electrical

## Output Power (mW):

10

## RMS Noise:

30 Hz - 10 MHz 1.0%

## Longitudinal Mode Spacing, Nominal (MHz):

320

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

10.0

## Hardware &amp; Interface Connectivity

## Power Supply:

#18-967 or #18-970 (12VDC), #18-968 (24VDC),  
#11-381 or #11-388 (110/220VAC)

## Output Type:

Free Space

## Environmental &amp; 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

## Country of Origin:

Thailand

**Imported By:**

Edmund Optics India Private Limited  
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## 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.

