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Model 1145, 22.5mW Random Polarization, Lumentum HeNe Laser



Lumentum High Performance Helium-Neon Lasers



Stock #62-732 **4 In Stock**

MRP ₹3,43,026

Price inclusive of all taxes

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General

Warm-Up Time (minutes):
20

Manufacturer:
Lumentum

Type of Laser:
HeNe

Laser Class - CDRH:

Model Number:

1145

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):

22.5

RMS Noise:

30 Hz - 10 MHz 0.5%

Longitudinal Mode Spacing, Nominal (MHz):

257

Minimum Output Power, TEM₀₀ (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

Country of Origin:

Thailand

Imported By:

Edmund Optics India Private Limited
267, Greystone Building, Second Floor,
6th Cross Rd, Binnamangala,
Stage 1, Indiranagar, Bengaluru,
Karnataka, India 560038
Phone: +91- 80-6845 0000

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.

