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# Model 1125P, 5mW Linear Polarization, Lumentum HeNe Laser



Lumentum High Performance Helium-Neon Lasers



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 1 

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 ₹1,27,971

 Price inclusive of all taxes

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## Product Downloads



| General  |                         |
|----------|-------------------------|
| 10       | Warm-Up Time (minutes): |
| Lumentum | Manufacturer:           |
| HeNe     | Type of Laser:          |
|          | Laser Class - CDRH:     |

|                                                                                                                                                       |                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| IIIb                                                                                                                                                  |                                               |
| 1125P                                                                                                                                                 | Model Number:                                 |
| Physical & Mechanical Properties                                                                                                                      |                                               |
| Pointing Stability after Warm Up (mrad°C):<br>After 15 min: <0.02                                                                                     |                                               |
| 1.3                                                                                                                                                   | Weight (lbs):                                 |
| 15.79                                                                                                                                                 | Length of Laser Head (inches):                |
| Static Alignment:<br>Centered to Outer Cylinder: ±0.01"<br>Parallel to Outer Cylinder: ±1.0 mrad                                                      |                                               |
| Pointing Stability (mrad°C):<br>From Cold Start, 25°: <0.1                                                                                            |                                               |
| 1.74                                                                                                                                                  | Diameter of Laser Head (inches):              |
| Optical Properties                                                                                                                                    |                                               |
| 500:1                                                                                                                                                 | Polarization:                                 |
| TEM <sub>00</sub>                                                                                                                                     | Spatial Mode:                                 |
| 632.80                                                                                                                                                | Wavelength (nm):                              |
| ±3                                                                                                                                                    | Beam Diameter Tolerance (%):                  |
| ±3                                                                                                                                                    | Beam Divergence Tolerance (%):                |
| Maximum Drift:<br>Mean Power over 8 hrs: ±2.5                                                                                                         |                                               |
| 0.81                                                                                                                                                  | Beam Diameter (mm):                           |
| 1.00                                                                                                                                                  | Beam Divergence (mrad):                       |
| Red                                                                                                                                                   | Color:                                        |
| >95%                                                                                                                                                  | Mode Purity (TEM <sub>00</sub> ):             |
| Electrical                                                                                                                                            |                                               |
| 5                                                                                                                                                     | Output Power (mW):                            |
| 30 Hz - 10 MHz 0.2%                                                                                                                                   | RMS Noise:                                    |
| 435                                                                                                                                                   | Longitudinal Mode Spacing, Nominal (MHz):     |
| 5.0                                                                                                                                                   | Minimum Output Power, TEM <sub>00</sub> (mW): |
| Hardware & Interface Connectivity                                                                                                                     |                                               |
| Power Supply:<br><a href="#">#18-965</a> or <a href="#">#18-969</a> (12VDC), <a href="#">#18-966</a> (24VDC),<br><a href="#">#11-390</a> (110/220VAC) |                                               |
| 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                                                                                                                                 |                                               |
| <a href="#">Compliant</a>                                                                                                                             | RoHS 2015:                                    |
| <a href="#">View</a>                                                                                                                                  | Certificate of Conformance:                   |
| <a href="#">Compliant</a>                                                                                                                             | REACH 241:                                    |
| Thailand                                                                                                                                              | Country of Origin:                            |

## 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.

