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# Model 1144, 15mW Random Polarization, Lumentum HeNe Laser (Recertified 05-P)



Lumentum High Performance Helium-Neon Lasers



Stock **#62-728-RCD-05P** RECERTIFIED **5 In Stock**

-

1

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**£1,800<sup>00</sup>**

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General

20      Warm-Up Time (minutes):

Lumentum      Manufacturer:

HeNe      Type of Laser:

|                                                                                                  |                                               |  |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------|--|
| IIIb                                                                                             | Laser Class - CDRH:                           |  |
| 1144                                                                                             | Model Number:                                 |  |
| Physical & Mechanical Properties                                                                 |                                               |  |
| Pointing Stability after Warm Up (mrad/°C):<br>After 15 min.: <0.3                               |                                               |  |
| 2.6                                                                                              | Weight (lbs):                                 |  |
| 25.00                                                                                            | 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°: <0.2                                      |                                               |  |
| 1.74                                                                                             | Diameter of Laser Head (inches):              |  |
| Optical Properties                                                                               |                                               |  |
| Random                                                                                           | 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                                                      |                                               |  |
| 0.70                                                                                             | Beam Diameter (mm):                           |  |
| 1.15                                                                                             | Beam Divergence (mrad):                       |  |
| Red                                                                                              | Color:                                        |  |
| >95%                                                                                             | Mode Purity (TEM <sub>00</sub> ):             |  |
| Electrical                                                                                       |                                               |  |
| 15                                                                                               | Output Power (mW):                            |  |
| RMS Noise:<br>30 Hz- 10 MHz 0.5%                                                                 |                                               |  |
| 257                                                                                              | Longitudinal Mode Spacing, Nominal (MHz):     |  |
| 15.0                                                                                             | Minimum Output Power, TEM <sub>00</sub> (mW): |  |
| Hardware & Interface Connectivity                                                                |                                               |  |
| #11-391 (110/220VAC)                                                                             | Power Supply:                                 |  |
| Free Space                                                                                       | Output Type:                                  |  |
| Environmental & Durability Factors                                                               |                                               |  |
| -40 to +70                                                                                       | Operating Temperature (°C):                   |  |
| Operating Humidity:<br>0 to 100%, non-condensing                                                 |                                               |  |
| -40 to +150                                                                                      | Storage Temperature (°C):                     |  |
| Regulatory Compliance                                                                            |                                               |  |
| View                                                                                             | Certificate of Conformance:                   |  |

## 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.

