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# Model 1107, 0.8mW Random Polarization, Lumentum HeNe Laser



Lumentum High Performance Helium-Neon Lasers



Stock **#62-716** CLEARANCE CONTACT US

-

1

+

£804<sup>00</sup>

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## SPECIFICATIONS

General

|          |                         |
|----------|-------------------------|
| 10       | Warm-Up Time (minutes): |
| Lumentum | Manufacturer:           |

|                                                                                  |                                               |
|----------------------------------------------------------------------------------|-----------------------------------------------|
| HeNe                                                                             | Type of Laser:                                |
|                                                                                  |                                               |
| IIIa                                                                             | Laser Class - CDRH:                           |
|                                                                                  |                                               |
|                                                                                  |                                               |
| 1107                                                                             | Model Number:                                 |
|                                                                                  |                                               |
| Physical & Mechanical Properties                                                 |                                               |
| N/A                                                                              | Pointing Stability after Warm Up (mrad°C):    |
|                                                                                  |                                               |
| 0.46                                                                             | Weight (lbs):                                 |
|                                                                                  |                                               |
|                                                                                  |                                               |
| 7.00                                                                             | Length of Laser Head (inches):                |
|                                                                                  |                                               |
|                                                                                  |                                               |
| Static Alignment:                                                                |                                               |
| Centered to Outer Cylinder: ±0.01"                                               |                                               |
| Parallel to Outer Cylinder: ±1.0 mrad                                            |                                               |
|                                                                                  |                                               |
| N/A                                                                              | Pointing Stability (mrad°C):                  |
|                                                                                  |                                               |
| 1.245                                                                            | 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:                                                                   |                                               |
| Mean Power over 8 hrs: ±2.5                                                      |                                               |
|                                                                                  |                                               |
| 0.48                                                                             | Beam Diameter (mm):                           |
|                                                                                  |                                               |
|                                                                                  |                                               |
| 1.70                                                                             | Beam Divergence (mrad):                       |
|                                                                                  |                                               |
|                                                                                  |                                               |
| Red                                                                              | Color:                                        |
|                                                                                  |                                               |
| >95%                                                                             | Mode Purity (TEM <sub>00</sub> ):             |
|                                                                                  |                                               |
| Electrical                                                                       |                                               |
| 0.8                                                                              | Output Power (mW):                            |
|                                                                                  |                                               |
| 30 Hz - 10 MHz 0.1%                                                              | RMS Noise:                                    |
|                                                                                  |                                               |
|                                                                                  |                                               |
| 1090                                                                             | Longitudinal Mode Spacing, Nominal (MHz):     |
|                                                                                  |                                               |
| 0.8                                                                              | Minimum Output Power, TEM <sub>00</sub> (mW): |
|                                                                                  |                                               |
| Hardware & Interface Connectivity                                                |                                               |
|                                                                                  |                                               |
| Power Supply:                                                                    |                                               |
| #11-379 (110/220V AC), #11-382 (12V DC), #11-383 (24V DC), #11-386 (110/220V AC) |                                               |
|                                                                                  |                                               |
| Output Type:                                                                     |                                               |
| Free Space                                                                       |                                               |
| 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

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