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Model 1103P, 2mW Linear Polarization, Lumentum HeNe Laser



Lumentum High Performance Helium-Neon Lasers



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⊖ 1 ⊕ £916⁰⁰

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General

10 **Warm-Up Time (minutes):**

Lumentum **Manufacturer:**

HeNe **Type of Laser:**

IIIa	Laser Class - CDRH:
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1103P	Model Number:
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Physical & Mechanical Properties

N/A	Pointing Stability after Warm Up (mrad/°C):
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0.54	Weight (lbs):
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9.50	Length of Laser Head (inches):
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Centered to Outer Cylinder: ±0.01" Parallel to Outer Cylinder: ±1.0 mrad	Static Alignment:
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From Cold Start, 25°: <0.1	Pointing Stability (mrad/°C):
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1.245	Diameter of Laser Head (inches):
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Optical Properties

500:1	Polarization:
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TEM ₀₀	Spatial Mode:
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632.80	Wavelength (nm):
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±3	Beam Diameter Tolerance (%):
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±3	Beam Divergence Tolerance (%):
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Mean Power over 8 hrs: ±2.5	Maximum Drift:
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0.63	Beam Diameter (mm):
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1.30	Beam Divergence (mrad):
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Red	Color:
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>95%	Mode Purity (TEM ₀₀):
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Electrical

2	Output Power (mW):
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30 Hz - 10 MHz 0.1%	RMS Noise:
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730	Longitudinal Mode Spacing, Nominal (MHz):
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2.0	Minimum Output Power, TEM ₀₀ (mW):
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Hardware & Interface Connectivity

#11-380 (110/220V AC), #11-384 or #18-972 (12V DC), #11-385 (24V DC), #11-387 (110/220V AC)	Power Supply:
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Free Space	Output Type:
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Environmental & Durability Factors

-40 to +70	Operating Temperature (°C):
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0 to 100%, non-condensing	Operating Humidity:
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-40 to +150	Storage Temperature (°C):
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Regulatory Compliance

Compliant	RoHS 2015:
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View	Certificate of Conformance:
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Compliant	REACH 241:
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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.

