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



Lumentum High Performance Helium-Neon Lasers



Stock #64-104 [CONTACT US](#)

- 1 + €1.145<sup>00</sup>

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| Qty 1+         | €1.145,00 each                |
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### Product Downloads



### General

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

Lumentum **Manufacturer:**

HeNe **Type of Laser:**

|      |                     |
|------|---------------------|
| IIIa | Laser Class - CDRH: |
|------|---------------------|

|       |               |
|-------|---------------|
| 1103P | Model Number: |
|-------|---------------|

## Physical & Mechanical Properties

|     |   |
|-----|---|
| N/A | Pointing Stability after Warm Up (mrad/°C): |
|-----|---|

|      |               |
|------|---------------|
| 0.54 | Weight (lbs): |
|------|---------------|

|      |                                |
|------|--------------------------------|
| 9.50 | Length of Laser Head (inches): |
|------|--------------------------------|

|   |                   |
|---|-------------------|
| Centered to Outer Cylinder: ±0.01"<br>Parallel to Outer Cylinder: ±1.0 mrad | Static Alignment: |
|---|-------------------|

|                            |                               |
|----------------------------|-------------------------------|
| From Cold Start, 25°: <0.1 | Pointing Stability (mrad/°C): |
|----------------------------|-------------------------------|

|       |                                  |
|-------|----------------------------------|
| 1.245 | 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 (%): |
|----|--------------------------------|

|                             |                |
|-----------------------------|----------------|
| Mean Power over 8 hrs: ±2.5 | Maximum Drift: |
|-----------------------------|----------------|

|      |                     |
|------|---------------------|
| 0.63 | Beam Diameter (mm): |
|------|---------------------|

|      |                         |
|------|-------------------------|
| 1.30 | Beam Divergence (mrad): |
|------|-------------------------|

|     |        |
|-----|--------|
| Red | Color: |
|-----|--------|

|      |                                   |
|------|-----------------------------------|
| >95% | Mode Purity (TEM <sub>00</sub> ): |
|------|-----------------------------------|

## Electrical

|   |                    |
|---|--------------------|
| 2 | Output Power (mW): |
|---|--------------------|

|                     |            |
|---------------------|------------|
| 30 Hz - 10 MHz 0.1% | RMS Noise: |
|---------------------|------------|

|     |   |
|-----|---|
| 730 | Longitudinal Mode Spacing, Nominal (MHz): |
|-----|---|

|     |   |
|-----|---|
| 2.0 | Minimum Output Power, TEM <sub>00</sub> (mW): |
|-----|---|

## 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: |
|---|---------------|

|            |              |
|------------|--------------|
| 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

|           |            |
|-----------|------------|
| Compliant | RoHS 2015: |
|-----------|------------|

|      |                             |
|------|-----------------------------|
| View | Certificate of Conformance: |
|------|-----------------------------|

|           |            |
|-----------|------------|
| Compliant | 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

Click on an item below to be brought to that item's product page.

