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Model 1122P, 2mW Linear Polarization, Lumentum HeNe Laser



Lumentum High Performance Helium-Neon Lasers



Stock #62-721 [CONTACT US](#)

- 1 + £1,092.⁰⁰

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| Qty 1+ | £1,092.00 each |
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Product Downloads



General

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

Lumentum **Manufacturer:**

HeNe **Type of Laser:**

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

| | |
|-------|---------------|
| 1122P | Model Number: |
|-------|---------------|

Physical & Mechanical Properties

| | |
|------|--|
| 0.02 | Pointing Stability after Warm Up (mrad/°C): After 15 min: <0.02 |
|------|--|

| | |
|------|---------------|
| 0.92 | Weight (lbs): |
|------|---------------|

| | |
|-------|--------------------------------|
| 10.71 | Length of Laser Head (inches): |
|-------|--------------------------------|

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

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

| | |
|------|----------------------------------|
| 1.74 | Diameter of Laser Head (inches): |
|------|----------------------------------|

Optical Properties

| | |
|-------|---------------|
| 500:1 | Polarization: |
|-------|---------------|

| | |
|-------------------|---------------|
| TEM ₀₀ | Spatial Mode: |
|-------------------|---------------|

| | |
|--------|------------------|
| 632.80 | Wavelength (nm): |
|--------|------------------|

| | |
|----|------------------------------|
| ±3 | Beam Diameter Tolerance (%): |
|----|------------------------------|

| | |
|----|--------------------------------|
| ±3 | Beam Divergence Tolerance (%): |
|----|--------------------------------|

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

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

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

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

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

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 ₀₀ (mW): |
|-----|---|

Hardware & Interface Connectivity

| | |
|--|---------------|
| #11-384 (12VDC), #11-385 (24VDC), #11-389 (110/220VAC) | 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.

