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Model 1135, 10mW Random Polarization, Lumentum HeNe Laser

Lumentum High Performance Helium-Neon Lasers

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Product Downloads

General

Warm-Up Time (minutes):
15

Manufacturer:
Lumentum

Type of Laser:
HeNe

Laser Class - CDRH:
IIIb

Model Number:
1135

Physical & Mechanical Properties

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

Weight (lbs):
1.5

Length of Laser Head (inches):
19.13

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

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

Diameter of Laser Head (inches):
1.74

Optical Properties

Polarization:
Random

Spatial Mode:
TEM_{00}

Wavelength (nm):
632.80

Beam Diameter Tolerance (%):
±3

Beam Divergence Tolerance (%):
±3

Maximum Drift:
Mean Power over 8 hrs: ±3

Beam Diameter (mm):
0.68

Beam Divergence (mrad):
1.20

Color:
Red

Mode Purity (TEMoo):
>95%

Electrical

Output Power (mW):
10

RMS Noise:
30 Hz - 10 MHz: 1.0%

Longitudinal Mode Spacing, Nominal (MHz):
320

Minimum Output Power, TEM_{00} (mW):
10.0

Hardware & Interface Connectivity

Power Supply:
#18-967 or **#18-970** (12VDC), **#18-968** (24VDC),
#11-381 or **#11-388** (110/220VAC)

Output Type:
Free Space

Environmental & Durability Factors

Operating Temperature (°C):
-40 to +70

Operating Humidity:
0 to 100%, non-condensing

Storage Temperature (°C):
-40 to +150

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

REACH 241:
Compliant

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

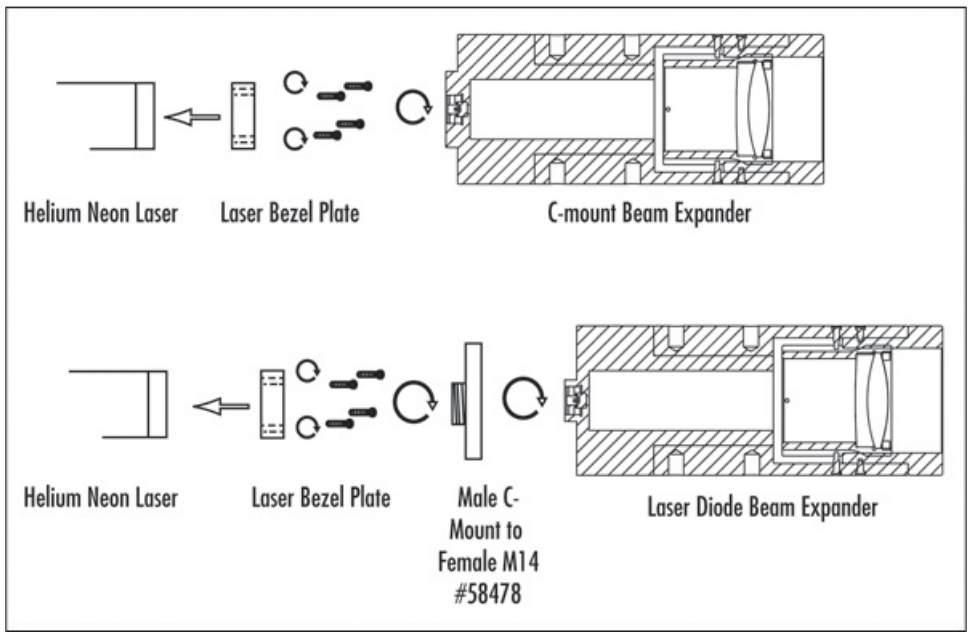
Lumentum High Performance Helium-Neon Lasers feature a patented close-cathode design that provides improved thermal and power stability. They also utilize a patented field concentrator design that enables fast turn-on. These Lumentum HeNe lasers also feature precisely aligned cylindrical housings, with 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.



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