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Model 1135, 10mW Random Polarization, Lumentum HeNe Laser



Lumentum High Performance Helium-Neon Lasers



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S\$2,408⁰⁰

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General

15	Warm-Up Time (minutes):
Lumentum	Manufacturer:
HeNe	Type of Laser:
IIIb	Laser Class - CDRH:

1135	Model Number:
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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 (TEM ₀₀):	>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 (110/220V AC)	
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.

