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Model 1103, 2mW Random Polarization, Lumentum HeNe Laser



Lumentum High Performance Helium-Neon Lasers



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SPECIFICATIONS

General

10

Warm-Up Time (minutes):

Lumentum

Manufacturer:

Type of Laser:

HeNe	
IIIa	Laser Class - CDRH:
1103	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" 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	
Random	Polarization:
TEM ₀₀	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 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	
#11-380 (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

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