

Model 1137P, 7mW Linear Polarization, Lumentum HeNe Laser



Lumentum High Performance Helium-Neon Lasers



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SPECIFICATIONS

General

10	Warm-Up Time (minutes):
Lumentum	Manufacturer:

HeNe	Type of Laser:
IIIb	Laser Class - CDRH:
1137P	Model Number:
Physical & Mechanical Properties	
Pointing Stability after Warm Up (mrad/°C): After 15 min: <0.02	
1.3	Weight (lbs):
15.79	Length of Laser Head (inches):
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	
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 (%):
Maximum Drift: Mean Power over 8 hrs: ±2.5	
0.81	Beam Diameter (mm):
1.00	Beam Divergence (mrad):
Red	Color:
>95%	Mode Purity (TEM ₀₀):
Electrical	
7	Output Power (mW):
30 Hz - 10 MHz 0.2%	RMS Noise:
435	Longitudinal Mode Spacing, Nominal (MHz):
7.0	Minimum Output Power, TEM ₀₀ (mW):
Hardware & Interface Connectivity	
Power Supply: #18-965 or #18-969 (12V DC), #18-966 (24V DC), #11-390 (110/220V AC)	
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:

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.

