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Model 1145P, 21mW Linear Polarization, Lumentum HeNe Laser



Lumentum High Performance Helium-Neon Lasers



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+

€3.585⁰⁰

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Product Downloads



General	
20	Warm-Up Time (minutes):
Lumentum	Manufacturer:
HeNe	Type of Laser:

IIIb	Laser Class - CDRH:
1145P	Model Number:
Physical & Mechanical Properties	
Pointing Stability after Warm Up (mrad/°C): After 15 min.: <0.3	
2.6	Weight (lbs):
Length of Laser Head (inches): 25.00	
Static Alignment: Centered to Outer Cylinder: ±0.01" Parallel to Outer Cylinder: ±1.0 mrad	
Pointing Stability (mrad/°C): From Cold Start, 25°: <0.2	
1.74	Diameter of Laser Head (inches):
Optical Properties	
500:1	Polarization:
TEM ₀₀	Spatial Mode:
Wavelength (nm): 632.80	
±3	Beam Diameter Tolerance (%):
Beam Divergence Tolerance (%): ±3	
Maximum Drift: Mean Power over 8 hrs: ±2	
Beam Diameter (mm): 0.70	
Beam Divergence (mrad): 1.15	
Color: Red	
>95%	Mode Purity (TEM ₀₀):
Electrical	
Output Power (mW): 21	
RMS Noise: 30 Hz - 10 MHz 0.5%	
Longitudinal Mode Spacing, Nominal (MHz): 257	
Minimum Output Power, TEM ₀₀ (mW): 21.0	
Hardware & Interface Connectivity	
#11-391 (110/220V AC)	Power Supply:
Free Space	Output Type:
Environmental & Durability Factors	
Operating Temperature (°C): -40 to +70	
Operating Humidity: 0 to 100%, non-condensing	
Storage Temperature (°C): -40 to +150	
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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