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Model 1145, 22.5mW Random Polarization, Lumentum HeNe Laser



Lumentum High Performance Helium-Neon Lasers



Stock **#62-732** 4 In Stock

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1

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€3.230⁰⁰

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Product Downloads



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

IIIb	Laser Class - CDRH:	
1145	Model Number:	
Physical & Mechanical Properties		
Pointing Stability after Warm Up (mrad/°C): After 15 min.: <0.3		
2.6	Weight (lbs):	
25.00	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°: <0.2		
1.74	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 (%):	
Maximum Drift: Mean Power over 8 hrs: ±2		
0.70	Beam Diameter (mm):	
1.15	Beam Divergence (mrad):	
Red	Color:	
>95%	Mode Purity (TEM ₀₀):	
Electrical		
22.5	Output Power (mW):	
30 Hz - 10 MHz 0.5%	RMS Noise:	
257	Longitudinal Mode Spacing, Nominal (MHz):	
22.5	Minimum Output Power, TEM ₀₀ (mW):	
Hardware & Interface Connectivity		
#11-391 (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

Click on an item below to be brought to that item's product page.

