

## ***Product Bulletin***



The Model 1507 and 1508 Novette™ helium-neon laser systems incorporate hard-sealed internal-mirror 1007 and 1008 plasma tubes and power modules into convenient, compact, self-contained packages. These low-cost units demonstrate superior power stability and meet CDRH requirements.

The base of the Novette is slotted for easy mounting. A 5/8"-32 bezel at the beam aperture interfaces with optical accessories. An optional adapter provides a 1"-32 threaded bezel (part number 01-0396).

### **Self-Contained Helium-Neon Laser Systems 1500 Series**

#### **Key Features**

- Hard-sealed internal mirror plasma tube
- Convenient, compact, self-contained packages
- Excellent power stability
- CDRH compliant
- Long operating life

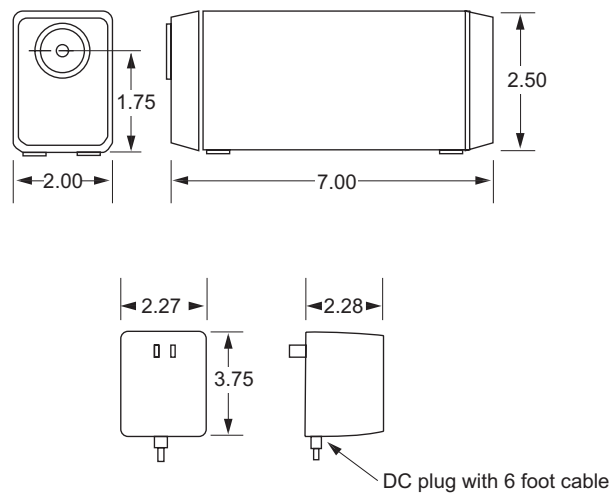
#### **Applications**

- Alignment
- Metrology
- Inspection

#### **Compliance**

- CDRH
- UL
- CE

Model 1500 Series Novette™ Self-Contained Helium-NeonLaser Systems  
(Specifications in inches unless otherwise noted.)



Specifications

Parameter	Model 1500 Series Novette Laser Systems			
	Model Number (note¹)			
	1507	1507P	1508	1508P
Optical				
Minimum output power (TEM <sub>00</sub> ) 633 nm	0.8 mW	0.8 mW	0.5 mW	0.5 mW
Beam diameter (1/e 2 points, ±3%)	0.48 mm	0.48 mm	0.48 mm	0.48 mm
Beam divergence (±3%)	1.7 mrad	1.7 mrad	1.7 mrad	1.7 mrad
Minimum polarizatoin ratio	N/A	500:1	N/A	500:1
Longitudinal mode spacing	1090 MHz	1090 MHz	1090 MHz	1090 MHz
Maximum noise (rms, 30 Hz to 10 MHz)	1.0%	1.0%	1.0%	1.0%
Maximum drift (note² )	±2.5%	±2.5%	±2.5%	±2.5%
Maximum mode sweeping contribution	10%	10%	20%	20%
Maximum warm-up time (note³)	10	10	10	10
CDRH class	IIIa	IIIa	II	II
Electrical				
Operating current				
AC at 120 V AC	150 mA	150 mA	150 mA	150 mA
AC at 220 V AC	82 mA	82 mA	82 mA	82 mA
AC at 100 V AC	N/A	N/A	N/A	N/A
Physical				
Weight	4.0 lbs.	4.0 lbs.	4.0 lbs.	4.0 lbs.

1. Add -1 for 120 V AC, -2 for 220 V AC, or -3 for 100 V AC operation. For example, 1507-2 will be configured for 220 V AC operation  
2. Mean power measured over 8 hours  
3. Minimum to 95% power

## Self-Contained Helium-Neon Laser Systems 1500 Series | 3

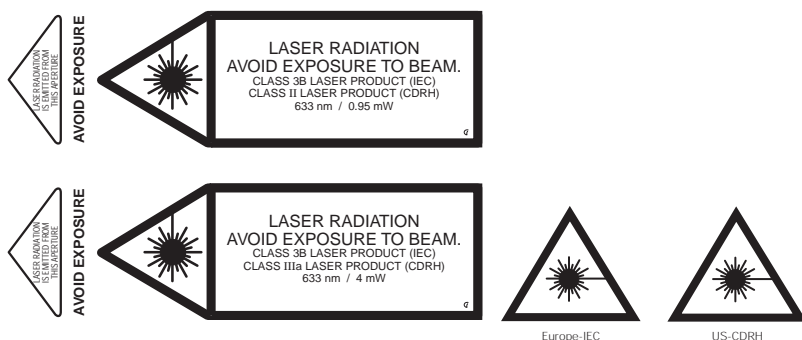
### Ordering Information

For more information on this or other products and their availability, please contact your local JDS Uniphase account manager or JDS Uniphase directly at 1-800-254-3684 in North America and +800-5378-JDSU worldwide or via e-mail at [sales@jdsu.com](mailto:sales@jdsu.com).

### Sample: 1508

### Warranty

JDS Uniphase helium-neon laser systems are warranted to be free of defects in workmanship and materials for twelve months from the date of shipment.



### Regulatory Compliance

The products listed in this brochure comply to one or more of the following regulatory standards, and may display one or more of the safety labels shown below. Contact your local JDS Uniphase sales representative for additional information on specific products or configurations.



North America toll-free: 1-800-254-3684  
Worldwide toll-free: +800-5378-JDSU  
[www.jdsu.com](http://www.jdsu.com)

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