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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

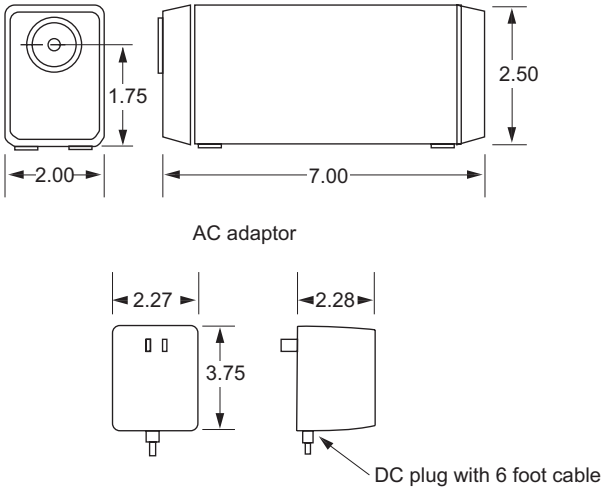
Compliance

- CDRH
- CE

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 threaded 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).

1500 Series Novette™ Laser Systems | **(Specifications in inches unless otherwise noted.)**



Specifications

Parameter	1507	1507P	1508	1508P	Unit
Optical					
Minimum output power (TEM_{00})	0.8	0.8	0.5	0.5	mW
Wavelength	632.8	632.8	632.8	632.8	nm
Beam diameter ($1/e^2$ points, ±3%, TEM_{00})	0.48	0.48	0.48	0.48	mm
Beam divergence (±3%, TEM_{00})	1.7	1.7	1.7	1.7	mrad
Polarization ratio (minimum)	N/A	500:1	N/A	500:1	-
Longitudinal mode spacing (nominal)	1090	1090	1090	1090	MHz
Maximum noise (rms, 30 Hz to 10 MHz)	1.0	1.0	1.0	1.0	%
Maximum drift (mean power measured over 8 hours)	±2.5	±2.5	±2.5	±2.5	%
Maximum mode sweep contribution	10	10	20	20	%
Maximum warm-up time (minutes to 95% power)	10	10	10	10	min.
CDRH class	IIIa	IIIa	II	II	-
Electrical					
AC adaptor operating current					
at 100 V AC	150	150	150	150	mA
at 120 V AC	150	150	150	150	mA
at 220 V AC	82	82	82	82	mA
General					
Mode purity			>95%		
Head weight			1.1 lbs.		

Input Voltage Options

For 1500 series Novette™ lasers, specify the desired AC Adaptor* input voltage by adding the appropriate dash number to the model number when ordering.

‘-1’ for 120 V AC
‘-2’ for 220 V AC
‘-3’ for 100 V AC

All model 1507/1508 laser heads will function with each listed AC Adaptor.

* For lost or damaged AC adaptors -1, -2, or -3, simply order replacement part numbers 21056997, 21056998, or 21056997 respectively.

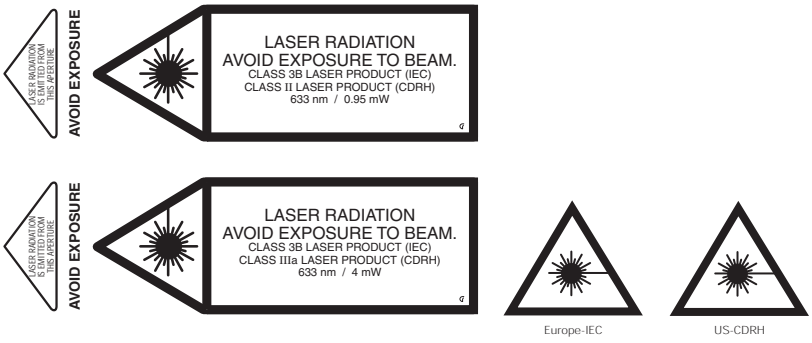
Ordering Information

For more information on this or other products and their availability, please contact your local JDSU account manager or JDSU directly at 1-800-498-JDSU (5378) in North America and +800-5378-JDSU worldwide or via e-mail at customer.service@jdsu.com.

Sample: 1508P-1

Warranty

JDSU 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 data sheet 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 JDSU sales representative for additional information on specific products or configurations.



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10138846 004 0112 SCHNL1500.DS.CL.AE January 2012

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