

He-Ne LASERS

Versatile and Reliable..... *Helium Neon Lasers*

These He-Ne Lasers combine hard-sealed internal mirrors, small physical size, and low noise, resulting in higher laser reliability, greater design flexibility, and enhanced performance.

- High-Performance Lasers
- Improved Stability
- Superior Alignment
- Low Noise
- Hard-Sealed Internal Mirrors
- Longer Operating Lifetimes
- 220V input



HIGH-PERFORMANCE JDS UNIPHASE He-Ne LASERS							
Minimum Output Power	Beam Dia (+/-3%)	Beam Divergence (+/-3%)	Minimum Polarization Ratio	Longitudinal Mode Spacing (nominal)	Max. RMS Noise (30Hz-10MHz)	Expected Operating Lifetime (hrs)	Head Size Cyl (in):Dia×L Rect (in):H×W×L
0.5mW	0.75mm	1.1mrad	Random	640 MHz	0.5%	15,000	2.87 x 3.45 x 14.81
0.5mW	0.75mm	1.1mrad	Random	640 MHz	0.5%	15,000	2.87 x 3.45 x 14.81
2.0mW	0.63mm	1.3mrad	Random	730 MHz	0.1%	> 30,000	1.740 x 10.71
2.0mW	0.63mm	1.3mrad	500:1	730 MHz	0.1%	> 30,000	1.740 x 10.71
5.0mW	0.81mm	1.0mrad	Random	435 MHz	0.2%	> 40,000	1.740 x 15.79
5.0mW	0.81mm	1.0mrad	500:1	435 MHz	0.2%	> 40,000	1.740 x 15.79
7.0mW	0.81mm	1.0mrad	Random	435 MHz	0.2%	> 40,000	1.740 x 15.79
7.0mW	0.81mm	1.0mrad	500:1	435 MHz	0.2%	> 40,000	1.740 x 15.79
10.0mW	0.68mm	1.2mrad	Random	320 MHz	1%	> 40,000	1.740 x 19.13
10.0mW	0.68mm	1.2mrad	500:1	320 MHz	1%	> 40,000	1.740 x 19.13
15.0mW	0.70mm	1.15mrad	Random	257 MHz	0.5%	> 40,000	1.740 x 25.00
15.0mW	0.70mm	1.15mrad	500:1	257 MHz	0.5%	> 40,000	1.740 x 25.00
21.0mW	0.70mm	0.83mrad	500:1	257 MHz	0.5%	> 40,000	1.740 x 25.00
22.5mW	0.70mm	0.83mrad	Random	257 MHz	0.5%	> 40,000	1.740 x 25.00

⇒ All Rectangular Lasers have self-contained power supply. 0.5mW version may have 110V input.

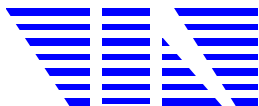
⇒ All Cylindrical Lasers have remote power supply.



VIN KAROLA INSTRUMENTS

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Parameters	Value
Wavelength	632.8nm (Red) @ >95% TEM00 mode purity
Max. Drift (mean power over 8 hrs)	+/- 2.5% for all lasers except (+/- 3% for 10mW) (+/- 2% for 21/22.5 mW lasers)
Max. Warm-Up time (95% power)	10 min for all lasers except 15 min for 10mW, and 20 min for 15, and 21/22.5 mW)
Beam Pointing Stability (after 15 min)	< 0.10 mrad for 2, and 5 mW lasers < 0.02 mrad for 7, and 10 mW lasers <0.03 mrad for 15, and 21/22.5 mW lasers
Maximum Starting Voltage	10 kV DC
Operating Current	4.0 mA (for 0.5 mW lasers) 6.0-6.5 mA (for 2, 5, 7, 10, 15, and 21/22.5 mW lasers)
Operating Voltage	1250 VDC for 0.5 mW laser 1800 VDC for 2 mW laser 2300 VDC for 5, and 7 mW lasers 3100 VDC for 10 mW laser 3800 VDC for 15, and 21/22.5 mW lasers



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