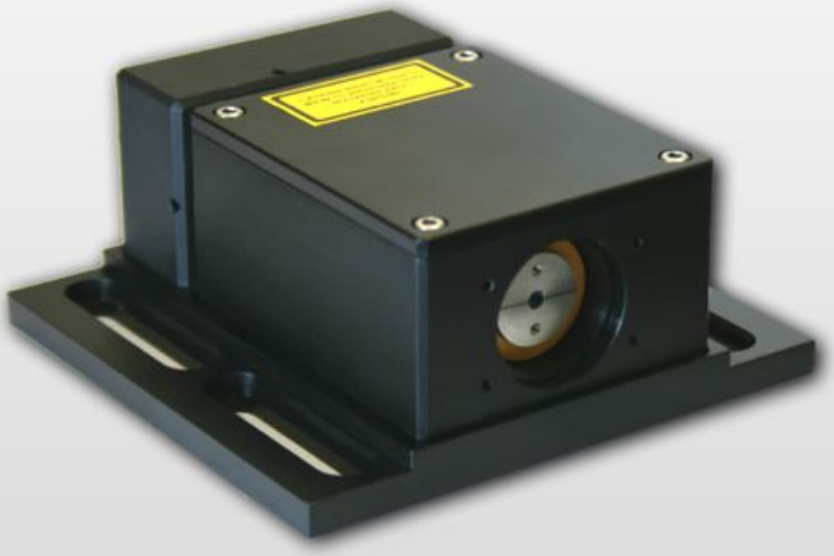
D2-100-DBR
Laser Module



The D2-100-DBR laser module is comprised of a Distributed Bragg Reflector (DBR) laser diode in a precision temperature-controlled housing with beam conditioning optics and an optical isolator. DBR laser diodes are fabricated with the feedback grating patterned directly adjacent to the gain section of the diode. They are highly immune to vibrations and by virtue of a very short cavity (~ 1 mm), they can be injection current tuned mode hop-free over more than 40 GHz, enabling very fast servo control for easy locking to atomic and molecular transitions.

NEW!

- ***Introducing 100 mW Performance at 780 nm***
- ***Potassium, Rubidium, and Cesium Wavelengths***
- ***Vibration Immune: No Moving Parts or Piezos***
- ***40 GHz Mode Hop-Free Tuning via High-Bandwidth Injection Current***
- ***Includes 35 dB Optical Isolator & Anamorphic Prisms***
- ***Circular, Collimated Laser Output***

Available wavelengths:
767, 770, 780, 795, 852, 895, 920, 976, 1064, 1083 nm

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Performance Specifications

	Min.	Typical	Max.	Units
Available Center Wavelengths	767, 770, 780, 795, 852, 895, 920, 976, 1064, 1083			nm
Center Wavelength Accuracy	See note 1			nm
Tuning				
Temperature		1.5		nm
Injection Current (mode hop-free)	40	50	60	GHz
Linewidth[2]	-	1.0	2.0	MHz
Output Power	See note 3			mW
Polarization	Horizontal			

[1] Rubidium and Cesium will be on transition. For other wavelengths please contact us.
[2] Values for 780 nm. High-power 780 nm: <500 kHz.
[3] Output power increases for larger wavelengths, varying from 25 mW to 300 mW; 100 mW now available at 780 nm.

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