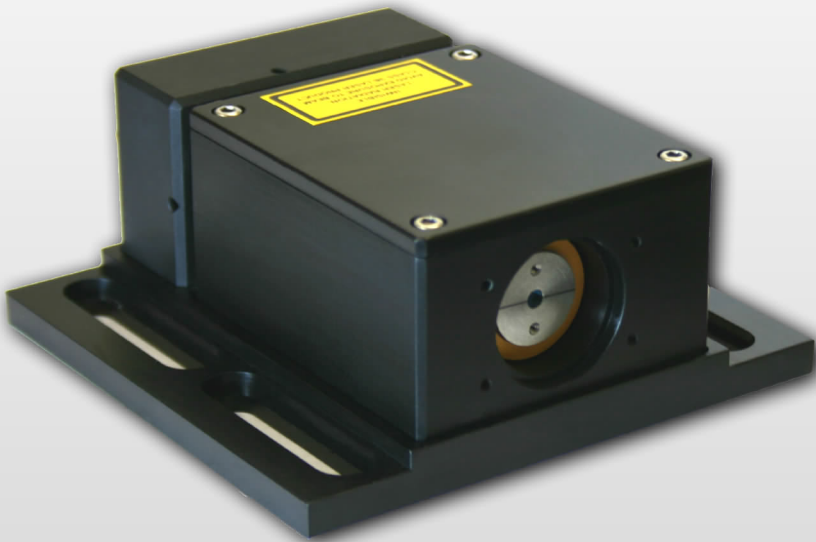


D2-100-DBR Laser Module



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 over more than 40 GHz, enabling very fast servo control for easy locking to atomic and molecular transitions.

- ***Vibration Immune: No Moving Parts or Piezos***
- ***All Lasers Burned in and MTTF typically >100,000 hrs***
- ***40 GHz Mode-Hop-Free Tuning via High Bandwidth Injection Current***
- ***Includes 35 dB Optical Isolator & Anamorphic Prisms***
- ***Circular Collimated Laser Output***

***Available DBR wavelengths (nm):
780, 795, 852, 895, 920, 976, 1064, 1083***

***Vescent Photonics, Inc.
www.vescent.com
Denver CO
(303) 296-6766
sales@vescent.com***

***Vescent
Photonics***

	Min.	Typical	Max.	Units
Available Center Wavelengths	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	-	1.5	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 DBR.

³ Output power increases for larger wavelengths, varying from 40 mW to 300 mW