

D-Light-795-HP200



Tunable Ultra-narrow Linewidth High Power Diode Laser

With Raytum's proprietary patent pending technology, *D-light-795-HP200* provide turn-key, fiber-coupled high power diode laser around 795 nm with both ultra-narrow linewidth and wide tuning range.

- 200 W CW laser is delivered out of 1200 μm fiber. The FWHM spectra linewidth is < 0.2 nm. The wavelength tuning range is ± 0.2 nm.
- The long term power stability is rms $< 0.5\%$ over 24 hrs, and short term stability is rms $< 0.1\%$ over 1 hr.
- Lifetime of diode laser module is more than 10,000 hours.
- Water-cooled.

The *D-light* series is designed and manufactured to meet custom high-performance and high-reliability requirements for scientific research, DPSS pumping, material processing, medical, and defense market segments.

TYPICAL PERFORMANCE

D-light Diode Laser Module Specification		
Specification	Parameter	Note
Optical Parameters		
Output power	200W	CW
Center Wavelength*	794.7	At 200W output power; see data sheet for specific value. There is a +/-0.2 nm tuning range for customer to accurately tune to desired peak wavelength
Spectrum width	<0.2 nm	FHWM
Fiber diameter	1.2 mm	
Beam NA	0.22	
* Center wavelength might shift to higher band for 0.05nm after long term operation		
Electrical Parameters		
Threshold current	12-13A	
Operation current	Typical 64-69 A	See datasheet for specific value
Operation voltage	< 10 V	
Thermal Parameters		
Operating temperature	15 to 35 °C	See data sheet for specific value
Ambient Temperature	0 to 40 °C	No condensing.
Mechanical Parameters		
Dimension*	20" X 15" X 8"	L x W x H
Weight	20 lbs	
Fiber length	2.0 m	
Fiber connector	D80	

* Might change without notification

Note:

1. This is a turn-key system including current driver and chiller.
2. A non-condensing environment is required for storage and operation.
3. Raytum Photonics continually improves its products to provide our customers with outstanding quality and reliability. We may make changes to specifications and product descriptions at any time, without notice.

**VISIBLE AND INVISIBLE
LASER RADIATION**

AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT