



Reliable Diode Laser Modules

DIODE LASER CONCEPTS, INC.

www.diodelaserconcepts.com

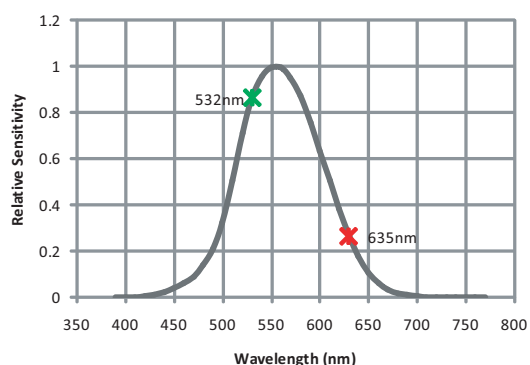
1 (541) 773-5321

532nm High Performance Green Diode Laser Modules

- **Output Power: <math><1\text{mW}</math> to 200mW**
- **Beam Characteristics:**
 - Gaussian Line, Uniform Line, Round Spot
 - Exceptional Output Power Stability : $\pm 5\%$
- **Electronic Profile:**
 - CW, TTL, or Variable Output Power
 - 3VDC Input Voltage
- **Mechanical Profile:**
 - Scratch Resistant Sapphire Window
 - Sealed Anodized Aluminum Housing: Industrial (19.05mm/0.75in)
 - Integrated Interconnects for Quick & Easy Installation & Removal
- **Customization Available Upon Request**



Visual Sensitivity of the Human Eye¹



¹Smith, Warren J. (2000). Modern Optical Engineering - Third Edition. New York. McGraw Hill.

Diode Laser Concepts Inc.'s, 532nm High Performance Green Diode Laser Modules are a fully customizable, high quality laser solution for the OEM customer. DLC's focus has always been on designing and building the most reliable diode laser modules on the market. Our 532nm Green module is no exception with its superior beam quality, power stability, aiming accuracy, and 1 year warranty. The fully sealed housing provides users with a robust module that can stand up to harsh industrial environments. DLC's 532nm Green Module is 3-5 times brighter than a typical red laser of the same output power, providing users with a beam that is highly visible in even the brightest working conditions. A full list of specifications and customizable options is available from Diode Laser Concepts; please contact us to discuss your OEM application.

DIODE LASER CONCEPTS, INC. - 4731 Industry Drive, Central Point, OR 97502 USA

Phone: 1 (541) 773-5321 - Fax: 1 (541) 773-1705 - www.diodelaserconcepts.com - sales@diodelaserconcepts.com

External Housing Specifications

Housing Dimensions	Ø19.05mm Length: 56.0mm, 76.4mm, or 89.5mm
Housing Material	Aluminum, Hard Anodized (Type III, Class 2 Anodization, Electrically Isolated)
Exit Aperture Protection	Sapphire Window
Customization	Dimensions, Materials, Exit Aperture Protection

Electrical Specifications

Operating Voltage	3VDC \pm 1%
Load Current	350mA - 1600mA (Laser Dependent)
Load Current vs. Temperature	0.7mA/°C Nominal
Continuous Wave (Standard Driver)	CW to 1kHz, Full Depth Modulation
TTL Modulation (Optional Driver)	CW to 2kHz, Full Depth Modulation
Electronic Protection	Reverse Polarity, Over Voltage, Surge Protection
Interconnect	175mm Nominal, 24AWG, UL 1569 or M12 Connector
Customization	Operating Voltage, Interconnect,

Environmental Specifications

Operating Temperature	0°C to 40°C
Storage Temperature	-40°C to 85°C
Dust/Water Resistant	Yes (Sealed Housing)
Customization	Operating Temperature, Dust/Water Resistance

Optical Specifications

Wavelength	532 nm
Wavelength Stability	\pm 1nm
Optical Power Range	1-200mW Single Mode
Power Output Stability at 25°C	\pm 5% Fluctuation over 60 Minutes
Power Output vs. Temperature	<0.5%/°C Nominal
Exit Beam Size	1.3mm AR<1.1 Nominal
Beam Divergence	<0.7mrad Nominal, Varies with Optical Configuration
Standard Line Fan Angles	5°, 10°, 20°, 30°, 45°, 60°, 70°, 90°, Custom
Line Thickness	1mm @1meter Nominal
Line Thickness Divergence	<0.5mrad Nominal, Varies with Optical Configuration
Line Intensity Profile	Gaussian or Uniform
Lens Material	Glass
Customization	Wavelength, Power Output, Spot Size, Fan Angle, Line Thickness, Line Intensity Profile

Pointing Specifications

Accuracy	<2mrad
Stability vs. Temperature	<10rad/ °C
Customization	Accuracy

DIODE LASER CONCEPTS, INC. - 4731 Industry Drive, Central Point, OR 97502 USA

Phone: 1 (541) 773-5321 - Fax: 1 (541) 773-1705 - www.diodelaserconcepts.com - sales@diodelaserconcepts.com