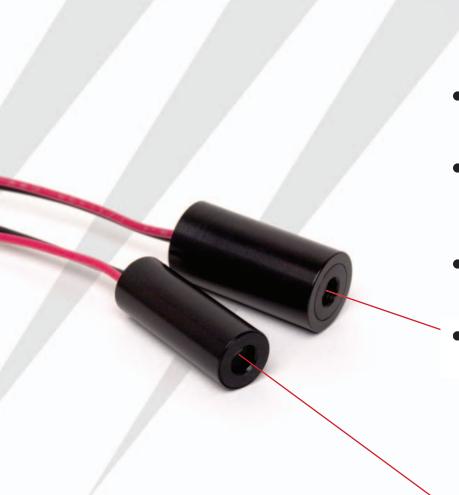
DLC's New High Performance Diode Laser Modules



- Pointing Accuracy <2mrad
- Pointing Stability<10µrad/°C
- Water and Dust Resistant
- Fully Customizable for OEM Applications

These performance advances provide key advantages to the OEM customer:

- Reduced Fixturing/Labor Costs
- Increased OEM Product Performance
- Broader Application Base
- Unmatched Performance at a Competitive Price.



Diode Laser Concepts, Inc.

4731 Industry Drive - Central Point, OR 97502 USA Tel: **541-773-5321** - Fax: **541-773-1705** Web: **www.diodelaserconcepts.com**

EXTERNAL HOUSING SPECIFICATIONS

Housing Dimensions	Ø9.5mm and Ø12.7mm Length: 25.4mm
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	5VDC ± 1%
Load Current	25mA – 150mA (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 1MHz, Full Depth Modulation
Electronic Protection	Reverse Polarity, Over Voltage, Surge Protection
Interconnect	175mm Nominal, 24AWG, UL1569
Customization	Operating Voltage, Interconnect

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-10°C to 50°C
Storage Temperature	-40°C to 85°C
Static Contact Discharge Immunity	>12kV
Dust/Water Resistant	Yes (Sealed Housing)
Customization	Operating Temperature, Dust/Water Resistance

OPTICAL SPECIFICATIONS

Wavelength Range	635-830nm
Wavelength Stability	0.25nm/°C Nominal
Optical Power Range	1-30mW, Single Mode
Power Output Stability at 25C	<1%
Power Output vs. Temperature	<0.5%/°C Nominal
Exit Beam Size	5.0mmX1.2mm, 6.1mmX1.2mm
Beam Divergence	<0.7mrad Nominal, Varies with Optical Configuration
Standard Line Fan angles	10°, 30°, 45°, 60°, 90°
Line Thickness	1mm@1Meter Nominal
Line Thickness Divergence	<0.5mrad Nominal, Varies with Optical Configuration
Line Intensity Profile	Gaussian (Top Hat Profile Available Upon Request)
Lens Material	Glass
Customization	Wavelength, Power Output, Spot Size, Fan Angle, Line Thickness, Line Intensity Profile

POINTING SPECIFICATIONS

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

RELIABILITY/REGULATORY SPECIFICATIONS

Laser Lifetime	>30,000 hrs at 25°C
Certification/ Regulatory	CE/ CDRH
Warranty	2 Years



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