Innovative Photonic Solutions

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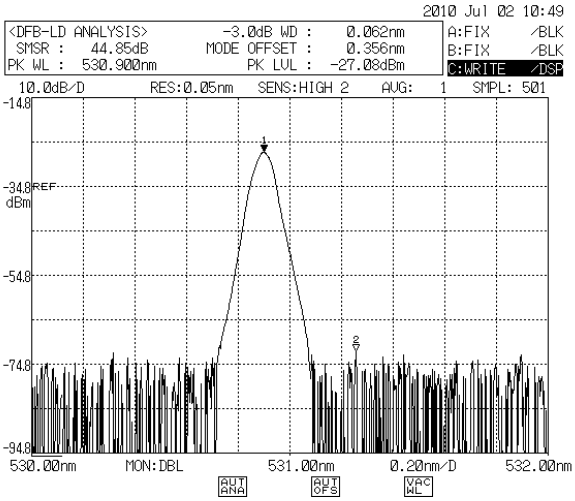
Wavelength Stabilized 532 nm Laser

Features

- Wavelength Stabilized Spectrum
- DPSS Single-Mode Laser with 105 Micron Core Multi-Mode Fiber Coupled Output
- Narrow Spectral Linewidth (< 0.05 nm FWHM)
- Temperature Stabilized Spectrum (< 0.007 nm/^{0}C)
- 40 dB SMSR Typical
- UL/CE and IEC Certified and Fully “turn-key”

Innovative Photonic Solution’s proprietary 532 nm Raman source laser features high output power with narrow spectral bandwidth. The laser’s stabilized peak wavelength remains “locked” regardless of case temperature (-10 to +35 deg. C). Devices can be spectrally tailored to suit application needs and offer side mode suppression ratios (SMSRs) better than 50 dB, thereby providing extremely high signal to noise ratio and making these sources ideal for Raman spectroscopy and pump laser applications.

This DPSS laser is integrated with high performance laser drive and temperature control electronics in our UL/CE and IEC certified L-type package with all the safety features and turn-key operation.



Typical 532nm SS Laser Spectrum (SMSR > 50 dB)

Optical Specifications	
FC/PC Bulkhead Part Number	I0532SL0100MF
SMA Bulkhead Part Number	I0532SL0100MS
Center Wavelength	532 nm
Wavelength Tolerance	+/- 0.5 nm
Output Power	>100 mW
Spectral Linewidth ($\Delta\lambda$)	<0.05 nm
Wavelength Stability Range	10 C - 35 C
SMSR	35 -45 dB
Output Power Stability	< 1% typical
Physical Specifications	
Optical Fiber	Multi-Mode Fiber
Connector	FC/PC or SMA available
Module Dimensions	9.48 x 6.94 x 4.14 inches
Case Material	Anodized Aluminmum
Operating Temperature	10 to 35 degrees C
Environment	0-80% Humidity, non condensing
Storage Temperature	-10 to + 55 degress C
Electrical Requirements	
Input Power	100 – 240 VAC, 50 – 60 Hz, 0.4 A
Fuse Rating	250 V, 1 A, Fast Blow, 5 mm x 20 mm, 2 each

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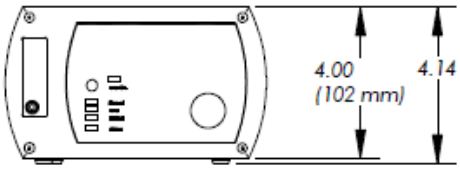
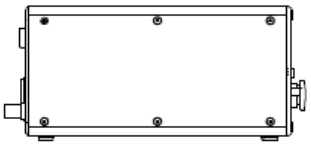
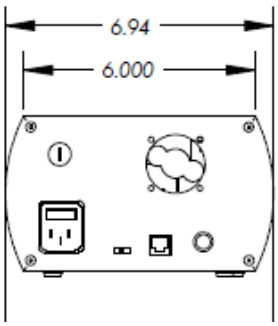
Mechanical Specifications

Front View

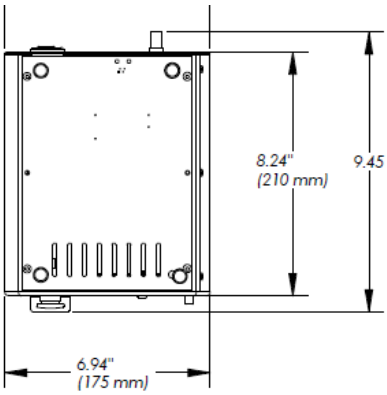




Back



Bottom View



OEM Laser Product

This laser module is designed for use as a component (or replacement) part and is thereby exempt from 21 CFR1040.10 and 1040.11 provisions.

Operational Notes

1. To adjust power output, IPS recommends using an external Neutral Density Filter.
2. IPS can supply our Laser Control Unit (LCU-M) that will enable USB control for on/off control. Pulse Width Modulation (PWM) function in the software that comes with the LCU-M will not be usable with this product.
3. See Operation Manual for full operating and safety instructions. This document is meant to offer a product overview.

Part Numbering Schema