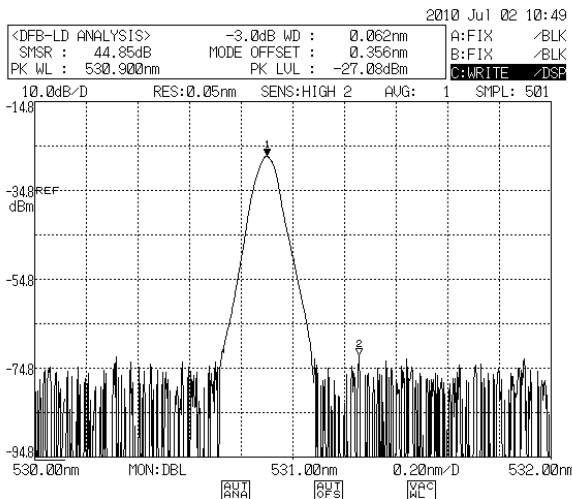


## Wavelength Stabilized 532 nm Laser



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) and offers 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.

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 required safety features and turn-key operation.



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

### Features

- Wavelength Stabilized Spectrum
- DPSS Single-Mode Laser with 105 Micron Core Multi-Mode Fiber Coupled Output
- Narrow Spectral Linewidth (< 0.05 nm FWHM)
- 40 dB SMSR Typical
- UL/CE and IEC Certified and Fully "Turn-Key"

### 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

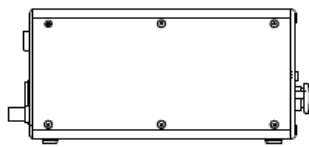
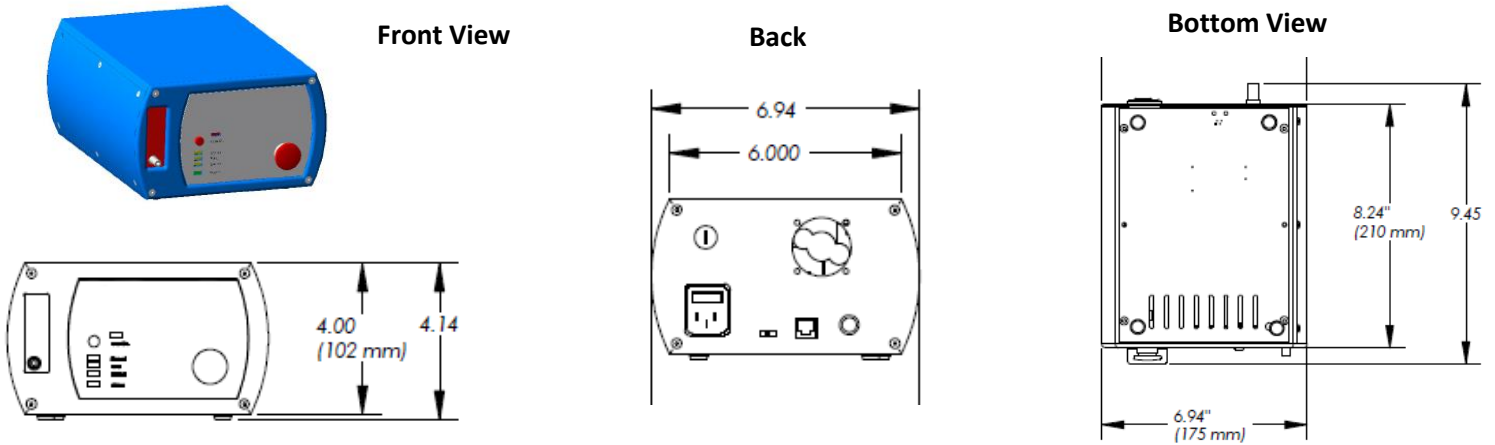
Optical Fiber	105 micron core 0.22NA Multi-Mode
Connector	FC/PC or SMA available
Module Dimensions	9.48 x 6.94 x 4.14 inches
Case Material	Anodized Aluminum
Operating Temperature	10 to 35 degrees C
Environment	0-80% Humidity, non condensing
Storage Temperature	-10 to + 55 degrees C

### 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



## Mechanical Specifications



### 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

