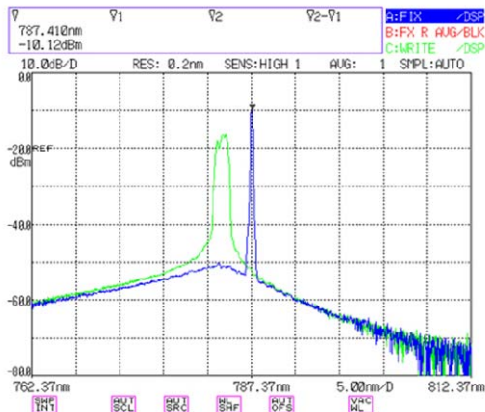


## New for 2008!

- Divya 785 L OEM laser: Low cost, compact frequency stabilized laser for OEM applications
- Divya FSL-λ High performance frequency stabilized laser with narrow line width
- Divya FSL-λ-50 Single transverse mode laser for Raman microscopy



Line narrowing of a semiconductor laser. (right) The green trace shows laser line before line narrowing: line width, approx. 2.2 nm (39  $\text{cm}^{-1}$ ). The blue line shows the line after line narrowing: typical line width, approx. 0.04 nm (0.5  $\text{cm}^{-1}$ ) (Less than the resolution of the optical spectrum analyzer used for this illustration.)

### **Divya ECL-785-L : Low Cost Frequency Stabilized OEM laser**

- 785 nm
- 300 mW fiber coupled FC or SMA connector
- Central wavelength accuracy: +/- 0.5 nm
- Narrow linewidth: 0.2 nm
- Integrated Temperature Control and Laser Current Driver
- Wavelength stability: within 0.15  $\text{cm}^{-1}$
- >10,000 hours laser lifetime

CLEO 2008

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 805-484-6639  
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**DIVYA™**

Frequency Stabilized  
 Raman Ready Lasers

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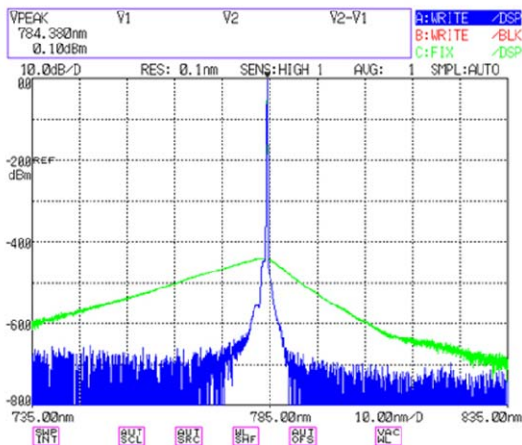
## Advanced Diode Laser Stabilization

### Divya™ lasers for Raman spectroscopy

The design has inherently reduced amplified spontaneous emission (ASE), narrow line width, and stabilized frequency output, making it an ideal Raman spectroscopy excitation source. The Divya™ features a stand alone for easy adaptation to existing Raman systems, simplified operation and convenience of monitoring. This design offers unparalleled reliability and robustness.

#### Key Features:

- Output power up to 400 mW
- Amplified spontaneous emission (ASE) reduced design
- Ultra stable center wavelength
- Narrow linewidth
- Fiber coupled or free space
- Robust, durable, cost effective design
- Greater than 10,000 hours operation for FSL lasers,
- One year warranty



### Divya FSL-λ : High Performance Frequency Stabilized, Narrow Linewidth Laser for Raman



- Standalone and compact OEM designs.
- 785 nm, 670 and 830 nm standard, with custom wavelengths to 980 nm available.
- Central wavelength accuracy: +/- 0.2 nm
- Wavelength stability: within 0.15 cm<sup>-1</sup> (0.01 nm)
- Spectral linewidth: < 1 cm<sup>-1</sup> (0.08 nm) standard 0.5 cm<sup>-1</sup> (0.04 nm) typical.
- Output power: 200 mW or 400 mW free space, 150 mW or 300 mW fiber coupled. Higher output available.
- Output Beam: Free Space or Fiber Coupled (105 μm, 0.22 NA) with FC or SMA connector
- Built in ASE reduced design.
- Greater than 10,000 hours operation
- Integrated Temperature Control and Laser Current Driver

ASE reduction in semiconductor lasers. (left) The green trace shows broad Amplified Spontaneous Emission from 735 to 835 nm. The blue trace shows the reduction of ASE with emission at the peak wavelength of 784.34 nm.

### Divya FSL-50; Single Transverse Mode, Frequency Stabilized Narrow Linewidth Laser for Raman Microscopy



- Standalone and compact OEM designs.
- 785 nm
- Central wavelength accuracy: +/- 0.2 nm
- Wavelength stability: within 0.15 cm<sup>-1</sup> (0.01 nm)
- Spectral linewidth: < 1 cm<sup>-1</sup> (0.08 nm) standard, 0.5 cm<sup>-1</sup> (0.04 nm) typical.
- Output power: 50 mW.
- Compact design.
- Greater than 10,000 hours operation
- Integrated Temperature Control and Laser

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