

# Diode Lasers for Raman Spectroscopy



## Features

- 785nm & 1064nm
- 150 - 200mW from singlemode fiber
- Narrow linewidths
- Turnkey systems or OEM versions

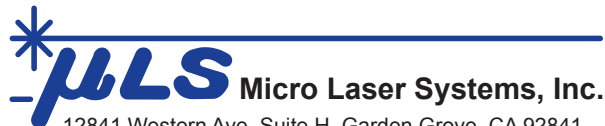
Our Lasers for Raman application now have over 100 mW coming out of singlemode fiber. When focused, they have much higher power density than larger core diameter, higher power lasers which are popular with many Raman sources.

Linewidths of 0.04 pm or better are typical. Output from the fiber can be collimated to different sizes with our series of Fiber Collimators.

Free space versions have 785 nm and 1064 nm with 64 mW output in a circular beam. These lasers have 0.1 pm or less.

Besides the laboratory version of lasers we also have the OEM version for system integration.

Excellent source for Raman spectroscopy, scanning, optical tweezers, confocal microscopes, plasmonics, tissue analysis, etc.



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## Specifications Turnkey Systems

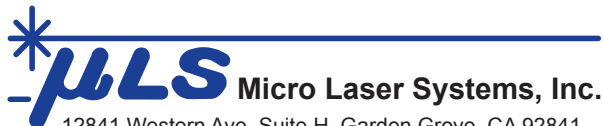
Fiber coupled lasers		Free space lasers	
Power stability:	<1%	Beam size:	1-2 mm
Interlock:	BNC - shorting	Beam divergence:	1.1 mrad
Laser monitor:	BNC - voltage output	Power stability:	< 1%
Modulation:	BNC - Analog to 1 MHz	Modulation:	1 MHz analog
Fiber connection:	FC/APC or FC/PC	-	-
Power requirements:	90-125 VAC, 190-250 VAC, 47-63 Hz		
Operating temperature:	15 to 30 <sup>o</sup> C non condensing		
Storage temperature:	0 to 50 <sup>o</sup> C		
Compliance:	CDRH 21 CFR 1040.10 certified system and IEC 60825-1.2 compliant for end users		

## Ordering Information

Turnkey Systems				
Model # (fiber coupled)	Wavelength	Linewidth	Fiber	Power
F11 786N-150-TE/APC	786 ± 1nm	< 0.04 pm	Singlemode	150 mW
F11 1064N-200-TE/APC	1064 ± 1nm	< 0.04 pm	Singlemode	200 mW
F13 785N-450-TE/APC	785 ± 0.5nm	~ 0.1 nm	100 μm multimode	450 mW
F13 830N-450-TE/APC	830 ± 0.5nm	~ 0.1 nm	100 μm multimode	450 mW
Model # (free space)	Wavelength	Linewidth	-	Power
L4 785N-64-TE/2mm/ESYS	785 ± 3nm	< 0.1 pm	-	64 mW
L4 1064N-64-TE/2mm/ESYS	064 ± 2nm	< 0.1 pm	-	64 mW
OEM Systems				
Model # (fiber coupled)	Wavelength	Linewidth	Fiber	Power
B1 786N-150-APC	786 ± 1nm	< 0.04 pm	Singlemode	150 mW
B1 1064N-200-APC	1064 ± 1nm	< 0.04 pm	Singlemode	200 mW
Model # (free space)	Wavelength	Linewidth	-	Power
L4 785N-64-TE/2mm/OSYS	785 ± 3nm	< 0.1 pm	-	64 mW
L4 1064N-64-TE/2mm/OSYS	1064 ± 2nm	< 0.1 pm	-	64 mW

Please call or email for red or other wavelengths of lasers.

Specifications subject to change without notice.



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