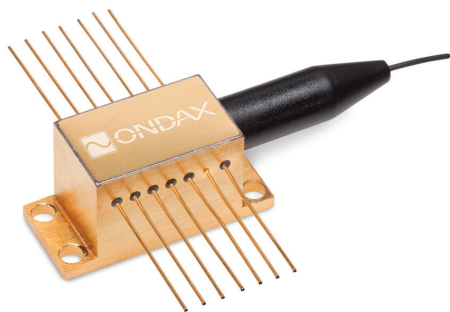


785nm/830nm/1064nm, 600mW Raman Butterfly Lasers



High Power, Narrow Linewidth
Fiber Coupled Output

Ondax's 785nm, 830nm and 1064nm Raman Butterfly Lasers are wavelength-stabilized, high-power, fiber-coupled lasers designed specifically for Raman applications. The narrowed linewidth, low power consumption, and broad stabilized temperature operating characteristics deliver affordable, portable instrument-quality performance.

All SureLock™ Series lasers are stabilized using the Ondax PowerLocker® Volume Holographic Grating (VHG), ensuring precise, ultra-stable center wavelengths, low temperature dependence, and consistent optical performance over the locked region.

Available with FC/PC or FC/APC connectors.

Features:

- Compact 14-pin butterfly footprint
- Narrow spectral linewidth - 0.15nm
- Wavelength stability across operating range 0.01nm/°C
- Fiber coupled output - 105 μ m MM fiber
- NoiseBlock™ narrow-band ASE suppression filters and beamsplitters available in matching wavelengths to further reduce linewidth and ASE noise

Applications:

- Raman Spectroscopy
- Metrology
- Bio-instrumentation
- Sensing
- Analytical Instrumentation

Specifications:

Specification Summary

Parameter	Symbol	Min	Typ	Max	Unit
Output Power	P_o			600	mW
Center Wavelength (vacuum)	L_p	784.5 829.5 1063.5	785 830 1064	785.5 830.5 1064.5	nm
Linewidth	$\Delta\lambda$	0.06	0.10	0.20	nm
Central Stabilized Temperature ¹	T_c	20		40	°C
Stabilized Temperature Range ¹	T_r	14			°C

Operating Specifications

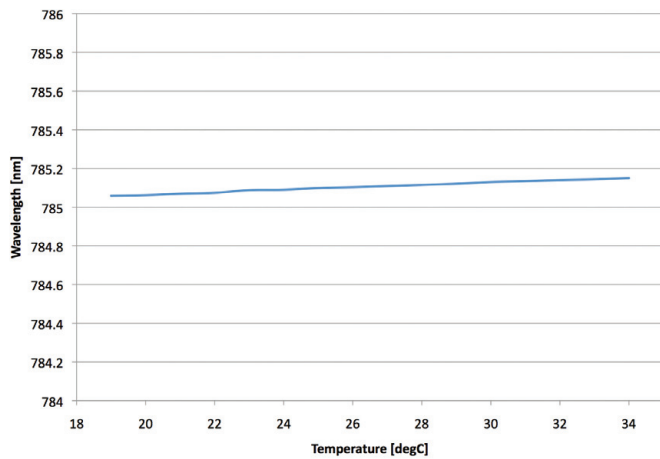
Parameter	Symbol	Min	Typ	Max	Unit
Threshold Current	I_{th}	785/830nm 1064nm	325 250		mA
Operating Current	I_{op}	785/830nm 1064nm	1100 1200	1500 1600	mA
Operating Voltage	V_{op}	785/830nm 1064nm	1.9 2.1	2.2 2.5	V
TEC Current				2	A
TEC Voltage				4	V
Fiber Type		105 μ m core/ 900 μ m tubing			
Connector		FC/PC (std) / FC/APC (custom)			
Numerical Aperture	NA		0.22		
Operating Temperature ²	T_{op}	0	25	50	°C
Storage Temperature ²	T_s	-20		80	°C

¹ Temperature set point is internal TEC set point. R-T thermistor data is available to determine actual thermistor setting. All specifications are at rated power with a case temperature of 25°C unless otherwise noted.

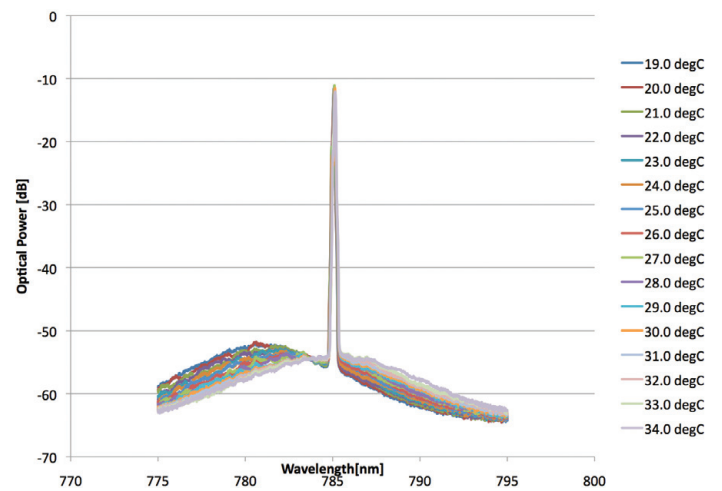
² Non-condensing

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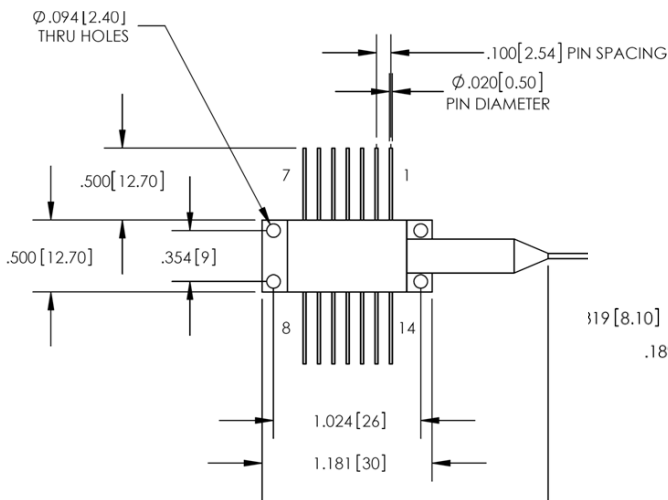
Wavelength Stability (785nm Example)



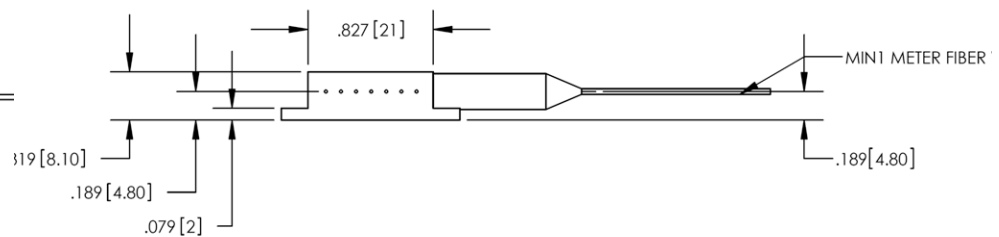
Optical Spectrum (785nm Example)



Top View



Side View



Pinout

Pin	Description	Pin	Description
1	TEC +	8	Not Connected
2	Thermistor	9	Laser Cathode
3	PD Anode	10	Laser Anode
4	PD Cathode	11	Laser Cathode
5	Thermistor	12	Not Connected
6	Not Connected	13	Case Ground
7	Not Connected	14	TEC

1. For a complete Thermistor resistance-temperature table, [click here](#).

