

Test Report RIO PLANEX™ Laser

Serial Number	105638
Part Number	RIO0195-5-01-4-AK8
Test Date	4/20/2015
Operator	WL
QA	GM

Parameter	Value	Units
Operating Temperature (Tset)*	17.5	°C
Operating Bias Current (Ibias)	124	mA
Maximum Bias Current (Imax)	140	mA
Output Power at Tset and Ibias	20.5	mW
Threshold Current	4.3	mA
Center Wavelength at Tset and Ibias	1560.478	nm
Custom Wavelength	1560.493	nm
Offset from Custom Wavelength	-15	pm
Linewidth (Lorentzian FWHM)	1.30	kHz
Side Mode Suppression Ratio at Tset and Ibias	55	dB
Polarization Extinction Ratio (room temperature)	>25	dB

* Thermistor resistance: 14.000 kΩ at Tset

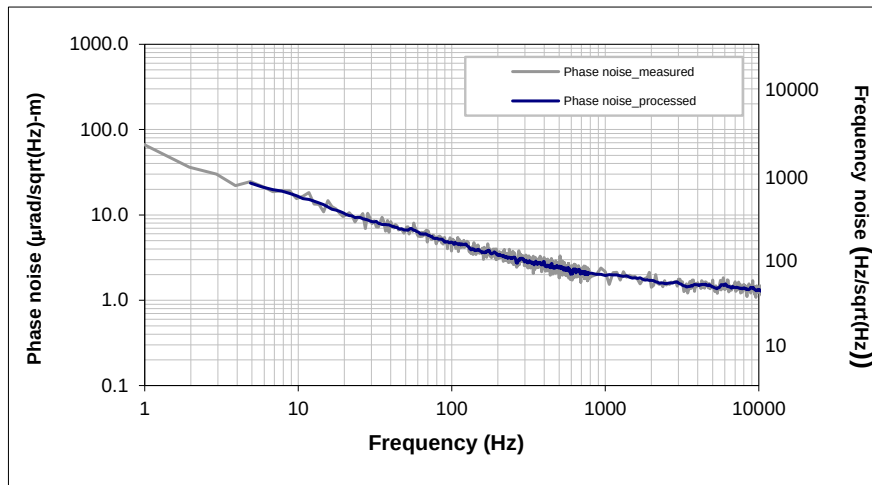


Fig.1: Phase Noise at Rset, Ibias, normalized to 1m path difference

Rev.4.1.0

Proprietary Information

OptaSense, Inc. DBA Redfern Integrated Optics
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 Santa Clara, CA 95054 USA

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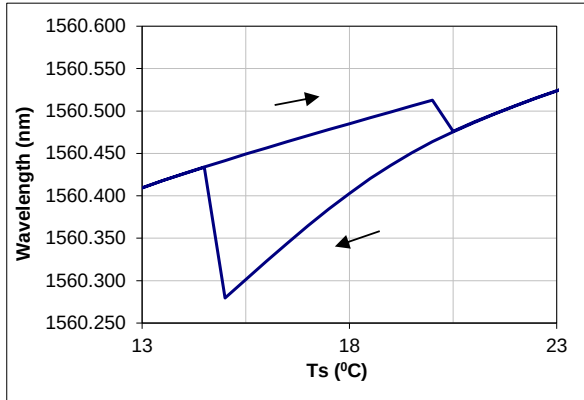


Fig.2: Wavelength vs. Tset at Ibias

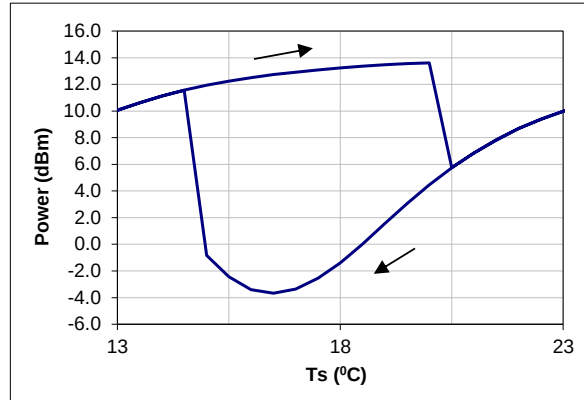


Fig.3: Power vs. Tset at Ibias

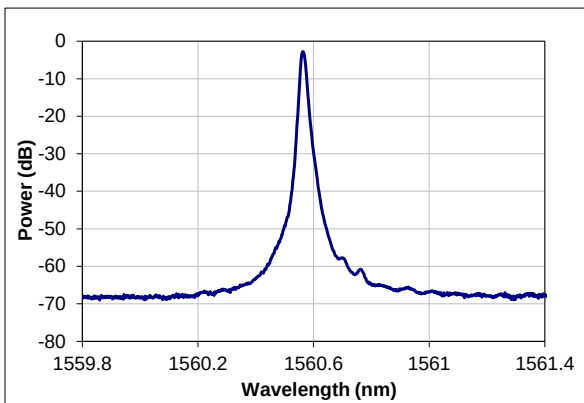


Fig.4: Spectrum (CW, Tset, Ibias)

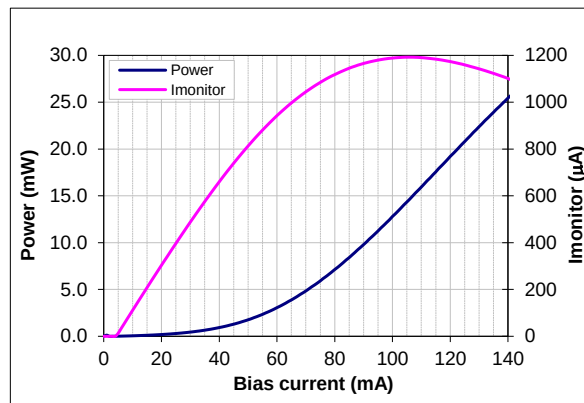


Fig.5: Laser Output Power and Imonitor vs. Bias Current at Tset

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