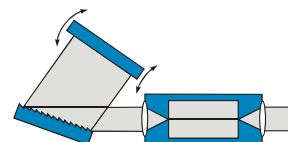
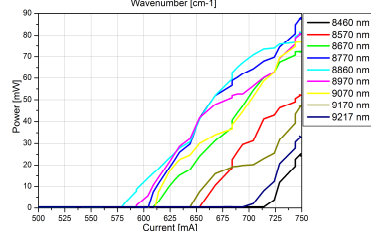
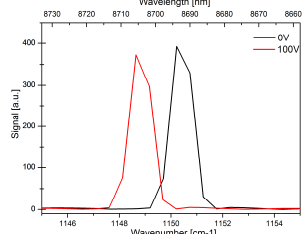
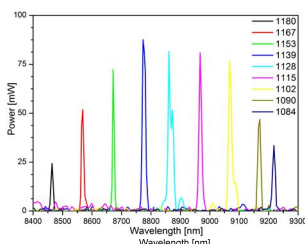


Lion Series: XQL-500-1150-100



Description:

The XQL-500-1150-100 is a CW operated External Cavity Quantum Cascade Laser in Littman Configuration. It is designed for applications which require high mode-hop free tuning range, high output power as well as low linewidth like for Gas Spectroscopy.



Wavelength Coarse Tuning Range

Wavelength: 1180 cm^{-1} – 1080 cm^{-1} :

8450 nm – 9250 nm

Power: 80 mW (CW power)

Wavelength Fine Tuning Range

Wavelength: 11 nm / 100 cm^{-1}

Mode-hop free

Power vs. Wavelength Upper Border of the Tuning Range

Power: 20 mW ... 80 mW

Specification:

output power	>20mW, typ. >80mW at gain maximum
beam profile	almost round, Diameter < 3mm
beam quality M^2	< 1.3 typ.
polarization	linearly, typ. > 100:1
linewidth (1ms)	< 100kHz
linewidth (1s)	< 1MHz (typ.)
side mode suppression	> 40dB, typ. > 45dB
coarse tuning range	> 800nm
piezo fine tuning rate	> 0.4GHz/V
piezo fine tuning range @ 27V (100V)	> 10GHz (40GHz)
mechanic cavity resonance	> 1.7 kHz
thermal stability	< 100 MHz/°C
heat sink requirements	optical breadboard (no water cooling)

Document: <http://docs.sacher-laser.com/x5-1150-r.pdf>

Note: Specification are subject to change without further notice.

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