

Origami - 10 Specification Sheet

Serial number: 076

Date of test: 12.05.2010

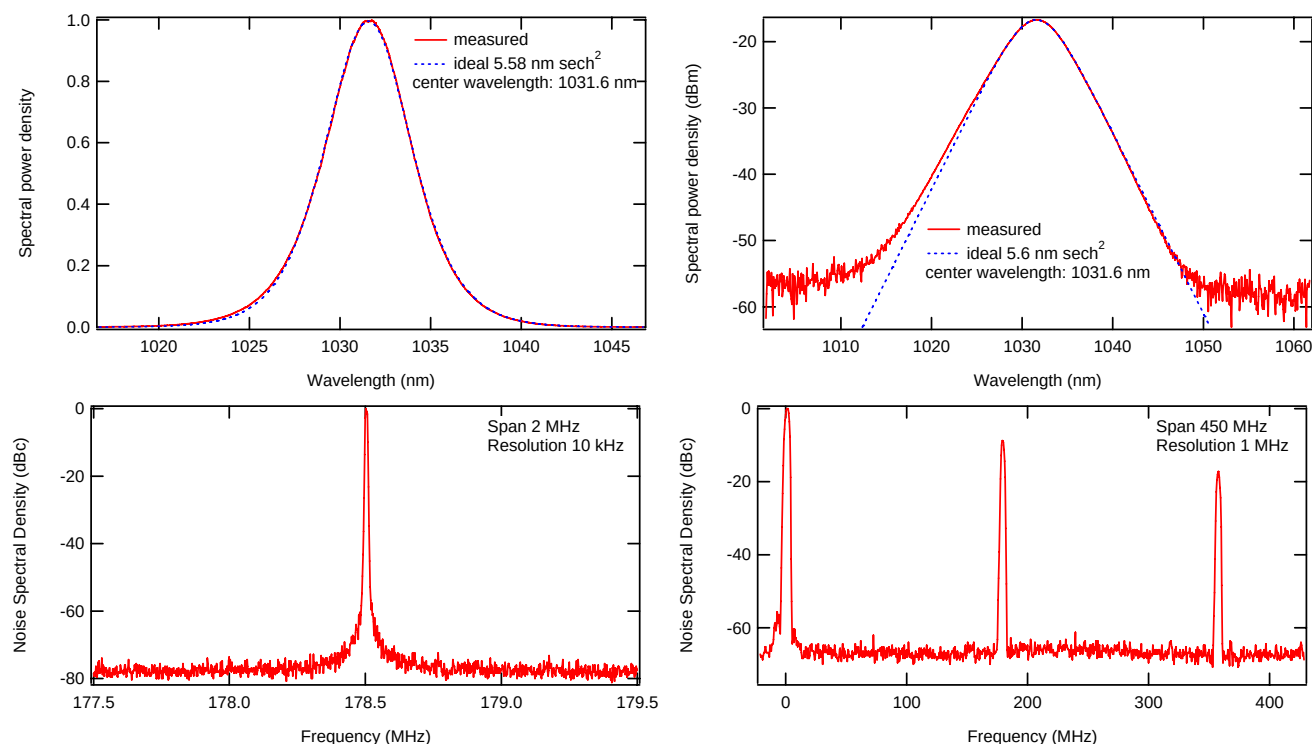
Ambient temperature: 23°C

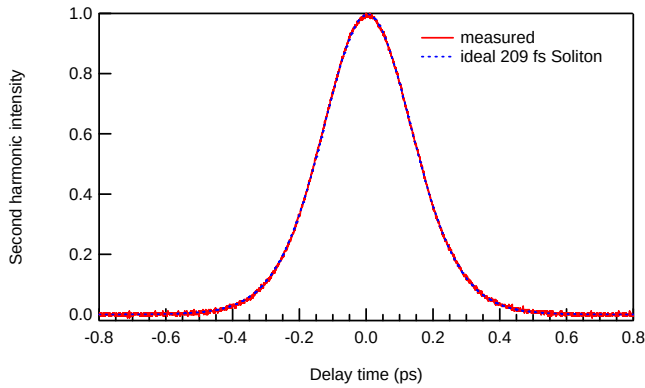
Performance of oscillator

Average output power: 250 mW
Pulse repetition rate: 178.500 MHz @ 17.4V on piezo
Pulse duration: 209 fs
Center wavelength 1031.58 nm (centered to customer provided CVBG)
Spectral width (FWHM) 5.58 nm
Time-bandwidth product 0.33
Polarization extinction ratio 27.7 dB

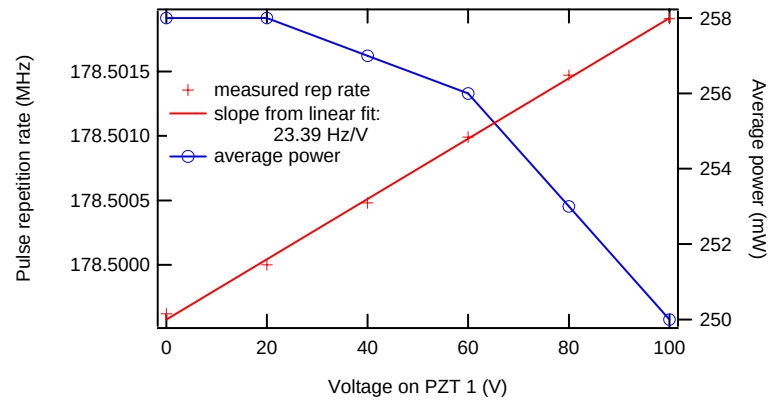
Options: 2 internal piezo elements
Coarse repetition rate tuning
Trigger output; RF output power > -12 dBm @ fundamental
Internal isolation stage with > 32 dB isolation

Oscillator:





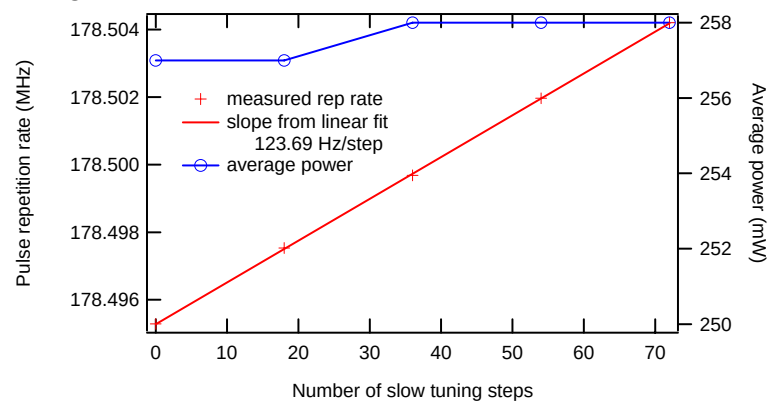
PZT 1:



Safe input voltage range at port PZT1: 0 – 100V
 Change of repetition rate: 23.39 Hz/V
 PZT1 tuning range > 2.29 kHz
 Pin out: core negative / shield positive

PZT 2: not working

Coarse repetition rate tuning:



Safe number of steps at "To Sync" port: +/- 50
 Change of repetition rate per step: 123.69 Hz/step
 Coarse tuning range > +/- 4 kHz
 Pin out: 1: +5V logic supply 1mA max
 7-10: GND
 12: decrease repetition rate if logic HI is applied (5V, 1s)
 13: increase repetition rate if logic HI is applied (5V, 1s)
 After each step a period of ~60 s applies where no additional step can be performed.
 See "Laser Controller LP Linear 1.1 Preliminary Manual.pdf" for pin out and functionality

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Sample spectra through CVBG provided by customer

