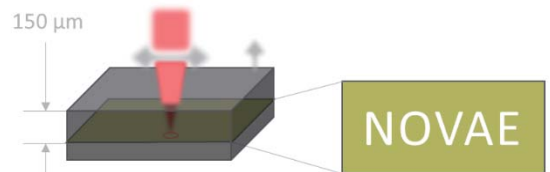
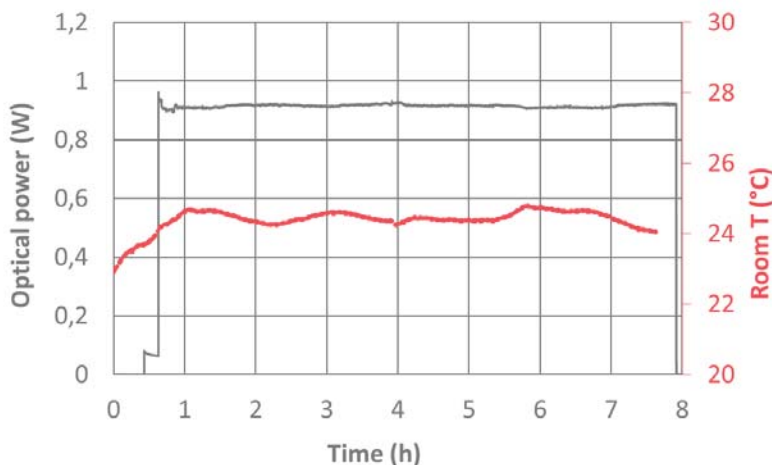


Brevity HP (Pre-release)

The mid-IR μ class laser

POWER STABILITY MEASUREMENT vs ROOM T°
OVER 8 HOURS



SETUP FOR BULK SILICON MACHINING
AT 150 μ m DEPTH



EXAMPLE OF BULK SILICON MACHINING
AT 150 μ m DEPTH

- **1.96 μ m** central wavelength
- High energy > **3 μ J**
- **Sub 2 ps** pulses
- **PER > 20 dB**
- High beam quality **$M^2 < 1.5$**
- **≥ 100 kHz** repetition rate

KEY APPLICATIONS

- Semiconductor bulk engraving
- Polymer machining
- Nonlinear optics
- Seed source for high power systems

Brevity High Power is a turn-key picosecond fiber laser emitting at 1.96 μ m. The very high peak power (>2MW) associated to the long wavelength allow the use of this laser in a wide range of industrial applications such as cold ablation of polymers or semiconductor bulk engraving. Based on a patented seed source and robust CPA architecture, this fibre laser is your best candidate when conventional wavelength does not meet your demand!

Brevity HP (Pre-release)

The mid-IR μ class laser



Optical specifications

Central wavelength	1.96 μ m \pm 20 nm
Average power	> 300 mW
Pulse energy (at 100kHz)	> 3 μ J
Repetition rate	100 kHz* - Burst mode operation compatible
Pulse width	< 2 ps (FWHM assuming sech ² fit)
Average power stability (RMS over 8 hours)	< 2 %**
Pulse energy stability (RMS over 1000 consecutive shots)	< 2 %
Beam pointing stability	< \pm 20 μ rad/K
Laser output	Collimated
M ²	< 1.5
Polarization state	Linear (PER > 20dB)

* Higher repetition rate on demand

** Upon stable environmental conditions 21°C \pm 2°C

Options / Accessories

Process Shutter	Pulse on demand operation
Variable attenuator	10 – 100% transmission
Second Harmonic Generation	>1 μ J @ 980 nm \pm 10nm

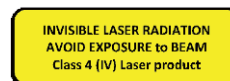


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