

BREVITY HP

ULTRAFAST
FIBER LASERS



THE MID-IR μ J CLASS LASER



BREVITY HIGH POWER (BHP) is a turn-key picosecond fiber laser emitting at 1.96 μ m. The very high peak power associated to the long wavelength allow the use of this laser in a wide range of industrial applications.

Taking advantage of semiconductor (silicon) transparency around 2 μ m, **BHP** is particularly suited for any application in the field of microelectronics and display needing to process through the silicon (lift-off, wafer debonding) or in the bulk of a wafer (stealth dicing, waveguide scribing).

FEATURES

Transparent to Silicon and low energy bandgap semiconductor

1.96 μ m wavelength

High precision machining

ps regime & $M^2 < 1.5$

High process throughput

MHz repetition rate

Rock solid

All fiber oscillator and amplifier design

NOVAE
A LEUKOS COMPANY

LEUKOS
Make a bright future

BREVITY HP

THE MID-IR μJ CLASS LASER

ULTRAFAST
FIBER LASERS



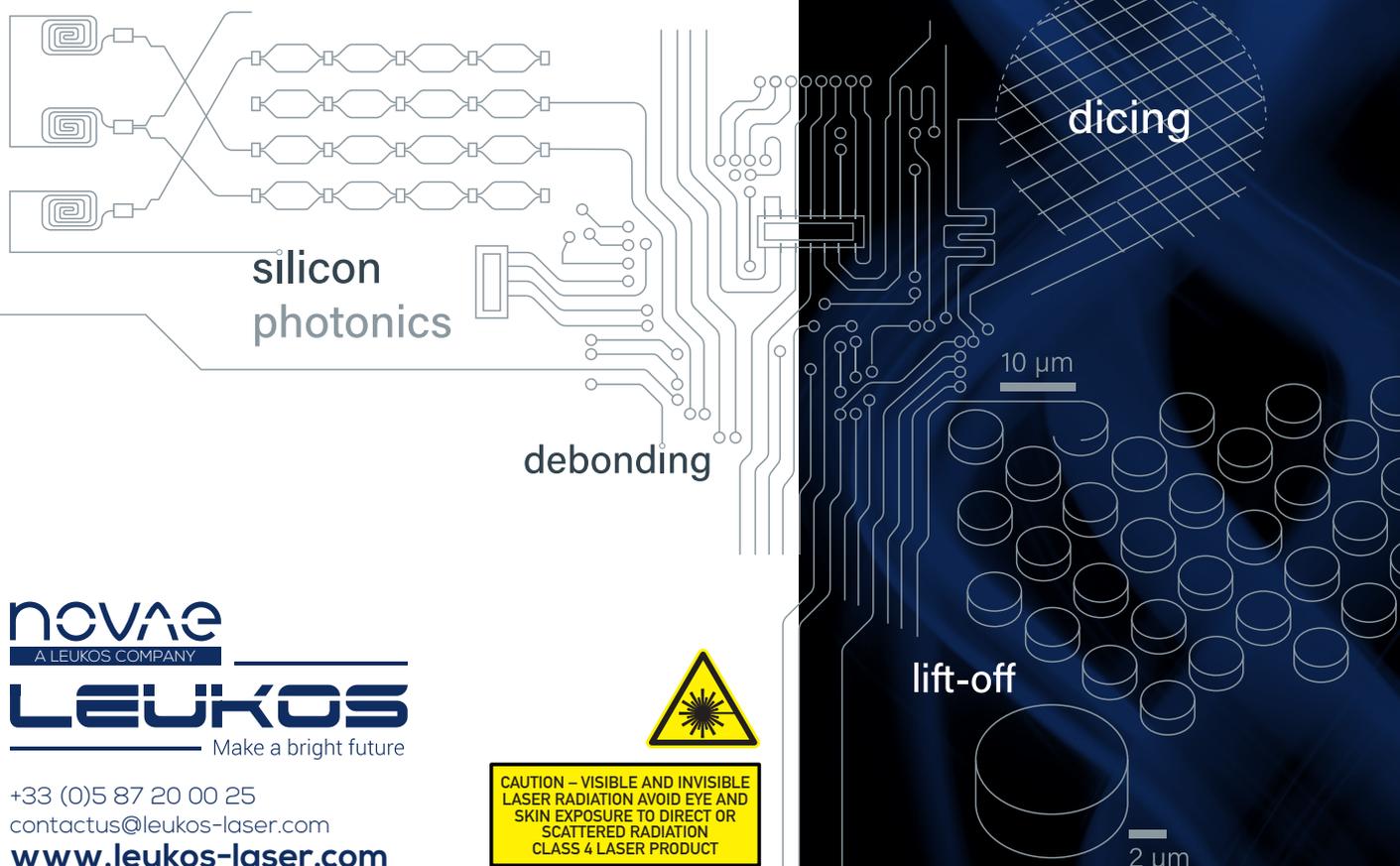
OPTICAL SPECIFICATIONS	BREVITY HP
Central wavelength	1.96 $\mu\text{m} \pm 20 \text{ nm}$
Average power	> 1 W
Pulse energy (at 100kHz)	Up to 10 μJ
Repetition rate	100 kHz - 1 MHz burst mode operation compatible
Pulse width	< 2 ps (FWHM assuming sech ² fit)
Average power stability (RMS over 8 hours)	< 2 %*
Pulse energy stability (RMS over 1000 consecutive shots)	< 2 %
Beam pointing stability	< $\pm 20 \mu\text{rad/K}$
Laser output	Collimated
M ²	< 1.5
Polarization state	Linear (PER > 20dB)
OTHER SPECIFICATIONS	
Operation voltage	100-240 V VAC 50/60Hz
System cooling: water cooling	Water cooling (Water-Air chiller included)
Operating temperature	+20°C to +30°C

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

BHP is then your best candidate when conventional wavelength does not meet your demand!

OPTION

Pulse on demand operation
10 – 100% transmission



NOVAE
A LEUKOS COMPANY

LEUKOS
Make a bright future

+33 (0)5 87 20 00 25
contactus@leukos-laser.com
www.leukos-laser.com



CAUTION – VISIBLE AND INVISIBLE
LASER RADIATION AVOID EYE AND
SKIN EXPOSURE TO DIRECT OR
SCATTERED RADIATION
CLASS 4 LASER PRODUCT