



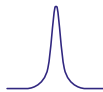
ALPHA HP 1030 - 1 GHZ

First >10 nJ, truly gigahertz, industry-grade master oscillator power amplifier (MOPA). All-in-one compact water-cooled box for OEM integration. Suited for applications requiring energy & power densities beyond the reach of the base Alpha 1030.

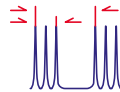
KEY FEATURES



Amplified



Pedestal-free



Burst mode
(option)

APPLICATIONS



Manufacturing



Biomedical



Elemental
analysis



LASER SPECIFICATIONS

Center wavelength	Average power	Power stability*	Repetition rate	Pulse energy	Pulse duration
[1030 - 1040] nm	> 10 W	TBC	1.00 +/- 0.01GHz	> 10 nJ	< 1000 fs

*measured over 7 days, free-running unstabilized, non-temperature-controlled environment

Spectral bandwidth	Peak power	Beam output	Beam diameter**	Beam quality	Polarization type
> 2 nm	> 9 kW	Free-space	TBC	$M^2 \leq 1.1$ diverg. TBC	Linear

**measured at 15 cm from shutter

CASING SPECIFICATIONS

Dimensions	Weight	Consumption	Cooling	Interfaces
50x26x7 cm ³	≤ 12.5 kg	230VAC	Water/Coldplate	Digital I/O USB

OPTIONS

Burst mode

Shorter pulses

Typical values • Product appearance and specifications are subject to change without notice • Customized OEM version on request

