



ALPHA 1030 - 1 GHZ

Our compact femtosecond laser's innovative all-glass design enables an exceptional peak power-to-volume ratio, making it an excellent choice for OEM integration. This laser is particularly effective for applications requiring rapid scanning and dense packets of infrared photons.

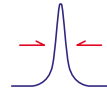
KEY FEATURES



Self-contained



Passive cooling



High peak power

APPLICATIONS



Nonlinear imaging



Nonlinear frequency conversion



Timing & synchronization



LASER SPECIFICATIONS

Center wavelength	Average power	Power stability*	Repetition rate	Pulse energy	Pulse duration
[1030 - 1040] nm	> 300 mW	$\leq 3.0\%$ p-p $\leq 0.5\%$ RMS	1.00 +/- 0.01GHz	> 0.3 nJ	< 350 fs

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

Spectral bandwidth	Peak power	Beam output	Beam diameter**	Beam quality	Polarization type
> 3 nm	> 0.9 kW	Free-space	0.7 mm	$M^2 \leq 1.1$ diverg. 1.5 mrad	Linear

**measured at 15 cm from shutter

CASING SPECIFICATIONS

Dimensions	Weight	Consumption	Cooling	Interfaces
22 x 14 x 4.5 cm ³	≤ 2.5 kg	24VDC, typ. 5W	Passive	Digital I/O USB

OPTIONS

Fiber-coupled	Shorter pulses	Stabilization
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Typical values • Product appearance and specifications are subject to change without notice • Customized OEM version on request

