



ALPHA - 1030 NM - 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, such as in manufacturing, remote target detection, and 3D tissue imaging.

KEY FEATURES



Self-contained



Passive cooling



High-performance

APPLICATIONS



Manufacturing



LiDAR



Microscopy





LASER SPECIFICATIONS

Center wavelength	Average power	Power stability*	Repetition rate	Pulse energy	Pulse duration
1035 ± 10 nm	> 300 mW	≤ 0.1 %	1.00 +/- 0.01 GHz	> 0.3 nJ	< 300 fs

*16 hours & room temperature

Spectral bandwidth	Peak power	Beam output	Beam diameter	Beam quality	Polarization type
> 4 nm	> 0.9 kW	Free-space Fiber (option)	0.4 mm x 0.5 mm	$M^2 \leq 1.05$ diverg. 1.5 mrad	Linear

CASING SPECIFICATIONS

Dimensions	Weight	Power supply	Cooling	Interfaces
220 x 140 x 45 mm ³	≤ 2.4 kg	≤ 24 W (24VDC / Max 1A)	Passive	Digital I/O USB

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

