



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	Peak power	Repetition rate	Pulse energy	Beam output
1035 nm	≥ 400 mW	≥ 1.3 kW	0.9 GHz	≥ 0.4 nJ	Free-space
Spectral bandwidth	Pulse duration	Beam diameter	Beam quality	Beam circularity	Polarization type
≥ 4 nm	≤ 300 fs	0.4 mm x 0.5 mm	$M^2 \leq 1.05$	$\geq 75\%$	Linear

CASING SPECIFICATIONS

Dimensions	Weight	Power supply	Cooling	Interfaces
200 x 140 x 40 mm ³	≤ 2 kg	≤ 24 W (24VDC/Max 1A)	Passive	Digital I/O USB Ethernet (option)

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

