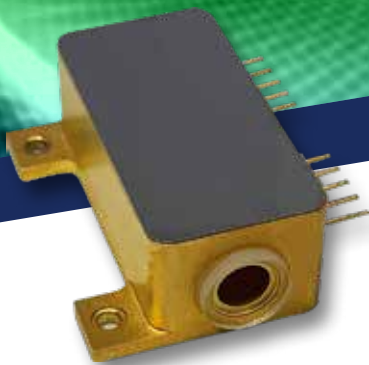


ULTRA COMPACT

ULTRA COMPACT SUB-ns MICROCHIP LASERS

MICROCHIP
LASERS



The **ULTRA COMPACT** products are based on a solid-state, diode-pumped and passively Q-switched laser.

With our proprietary and patented design, our lasers generate single nano-second pulse at 1064 nm or 532 nm with energies up to 18 μ J.



FEATURES

- Light and compact package
- Laser head <100g
- Passively Q-switched
- Proprietary microchip design
- Sealed package
- Clean pulse (no parasite)
- Externally triggerable
- Air cooled

APPLICATIONS

- Micromachining
- Light detection and ranging (LIDAR)
- Biophotonics
- Pollution monitoring



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ULTRA COMPACT

ULTRA COMPACT SUB-ns MICROCHIP LASERS

The extremely reliable and robust microchip design is perfect for advanced OEM industrial and scientific applications. The ultra compact design is best suited for almost any system integration.

MICROCHIP
LASERS



OPTICAL SPECIFICATIONS	HIGH ENERGY		STANDARD	
Wavelength (nm)	1064	532	1064	532
Pulse Rep Rate range	1-5 kHz		20-30 kHz	
Pulse energy (up to)	18µJ	6µJ	12µJ	4µJ
Pulse duration typ. range	~ 1 ns			
Spatial mode	TEM 00, M ² < 1,2			
Power stability (rms 24H)	< 2 %			
Polarization	> 100:1			
Laser class	III B			
Operating temperature	5-40°C (non condensing)			
OTHER SPECIFICATIONS				
Laser head dimension	40x35x15 mm / < 100g			
Photodiode output signal	TTL compliant			
External trigger option	TTL signal requested			
OEM driver	12VDC/5A - dimension 115 x 85 x 35mm			



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OPTION

- Battery powering compliance
- OEM or board only controller
- Customised beam shaping



CAUTION – VISIBLE AND INVISIBLE
LASER RADIATION AVOID EYE AND
SKIN EXPOSURE TO DIRECT OR
SCATTERED RADIATION
CLASS 3B OR 4 LASER PRODUCT