MICROCHIP LASERS

HLX-G

532 nm SUB-ns MICROCHIP LASERS

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

With our proprietary and patented design, our lasers generate single pulse at 532 nm with duration as short as 500 ps, repetition rates up to 100 kHz, average powers up to 200 mW and energies up to 20 µJ.

FEATURES

- Passively Q-switched
- Proprietary microchip design
- Sealed package
- Clean pulse (no parasite)
- Repetition rate up to 100 kHz
- Externally triggerable
- Air cooled

APPLICATIONS

- Micromachining
- Light detection and ranging (LIDAR)
- Biohazard detection
- Biophotonics
- Pollution monitoring
- LIF (Laser Induced Fluorescence)
- LIBS (Laser Induced Breakdown Spectrocsopy)
- Raman spectroscopy

HORUS LASER
AN EYE SET ON YOUR REQUEST
A LEUKOS COMPANY

LEUKOS
Make a bright future

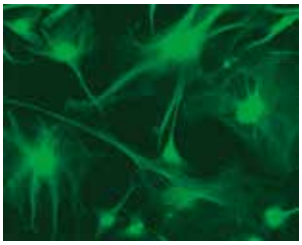
HLX-G

532 nm SUB-ns MICROCHIP LASERS

MICROCHIP LASERS

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

OPTICAL SPECIFICATIONS	HIGH ENERGY		STANDARD		HIGH REP RATE	
Pulse Rep Rate range	1 kHz	5 kHz	20kHz	30 kHz	40 kHz	50kHz
Pulse energy (up to)	20 µJ	13 µJ	10 µJ	5 µJ	3 µJ	2 µJ
Average power	20 mW	65 mW	200 mW	150 mW	120 mW	100 mW
Pulse duration typ. range	< 1ns	< 1ns	< 1ns	< 1ns	< 1ns	~ 1ns
Spatial mode	TEM 00, M^2 < 1,2					
Power stability (rms 24H)	< 2%					
Beam diameter typ.	50-100 µm					
Ellipticity at focusing point	Roundness correction < 10% in option					
Polarization	> 100:1					
Laser class	III B					
Operating temperature	5-40°C (non condensing)					
Expected lifetime	> 15,000 h					
OTHER SPECIFICATIONS						
Laser head dimension	90 x 85 x 70 mm (with heat sink)					
Photodiode output signal	TTL compliant					
External trigger option	TTL signal requested					
OEM driver	12 VDC/5A - dimension 115 x 85 x 35 mm					
Desktop driver	110-240 VAC - dimension 210 x 170 x 45 mm					



OPTION

UV 355 nm and 266 nm on demand

OEM or desktop controller

Customised beam shaping

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

HORUS LASER
AN EYE SET ON YOUR REQUEST
A LEUKOS COMPANY

LEUKOS
Make a bright future

+33 (0)5 87 20 00 25
contactus@leukos-systems.com
www.leukos-systems.com