

邮箱: sales@highlightoptics.com HLX-G 532 nm SUB-ns

电话: 0755-84870203





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 μ J.





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





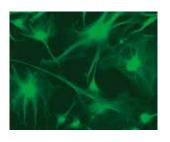
HLX-G 532 nm SUB-ns MICROCHIP LASERS

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 E	ENERGY	STAN	DARD	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	ЗµЈ	2 µJ					
Average power	20 mW	65 mW	200 mW	150 mW	120 mW	100 mW					
Pulse duration typ. range	< lns	< lns	< lns	< lns	< lns	~ lns					
Spatial mode		TEM 00, M² < 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





HLX–I 1064 nm SUB–ns MICROCHIP LASERS





The **HLX-I** 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 1064 nm with duration as short as 450 ps, repetition rates up to 100 kHz, average powers up to 500 mW and energies up to 50 μ J.





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) Laser seeding for fiber amplification Biophotonics Pollution monitoring

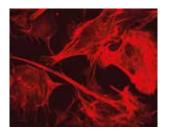






The extremely reliable and robust microchip design is perfect for advanced OEM industrial and scientific applications. The compact design is best suited for almost any system integration.

OPTICAL SPECIFICATIONS	HIGH ENERGY		STANDARD		HIGH REP RATE		LONG PULSE			
Pulse Rep Rate range	1 kHz	5 kHz	20kHz	30 kHz	40 kHz	100 kHz	5kHz			
Pulse energy (up to)	40 µJ	30 µJ	20 µJ	17 µJ	10 µJ	ЗµЈ	50 µJ			
Average power	40 mW	150 mW	400 mW	500 mW	400 mW	300 mW	250 mW			
Pulse duration typ. range	< lns	< lns	~ lns	~ lns	~ lns	~ 2 ns	~ 4 ns			
Spatial mode	TEM 00, M² < 1,2									
Power stability (rms 24H)	< 2%									
Beam diameter typ.	100-200µm									
Polarization	> 100:1									
Laser class	III B or IV									
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	12VDC/5A - dimension 115 x 85 x 35mm									
Desktop driver	110-240VAC - dimension 210 x 170 x 45mm									



OPTION

MICROCHIP LASERS

Fiber coupling (SMF, PM, LMA, PCF...) 2 output emission OEM or desktop controller Average power up to 1 W Customised beam shaping



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

