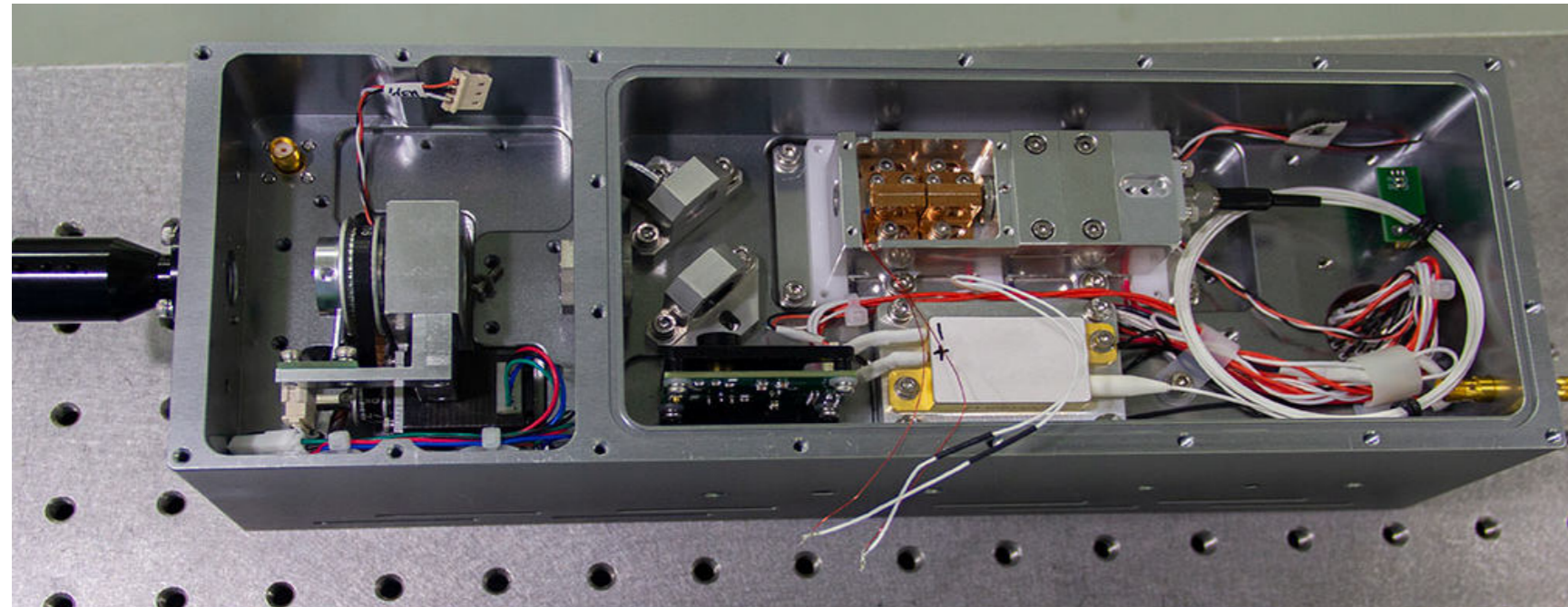


# 1064nm Passive Q-Switched Sub Nanosecond Laser



## DESCRIPTION

This series of products include active Q-switching and passive Q-switching microchip two technical solutions to generate sub nanosecond optical pulses, output sub nanosecond laser pulses while maintaining excellent beam quality. For the active Q-switched technology, the jitter of the output optical signal and the trigger signal is less than 1 ns, and for the passive Q-switched microchip laser, the jitter of the output signal and the external trigger signal is less than 10 μs. The laser can be used alone or as seed source of laser amplifier. At the same time, the laser amplifier of our company can be used to amplify the energy to tens of MJ. At the same time, the wavelength can be extended to 532nm, 355nm, 266nm, etc. The product has the advantages of good beam quality, high peak power, reliable performance, compact structure, simple operation and maintenance. Combined with excellent production technology, this series of products can meet the requirements of airborne, vehicle mounted, high and low temperature and other harsh environments.

Main features of this series of lasers: Sub-nanosecond, high peak power; High beam quality; High stability and compact structure; Strong environmental adaptability, working at -20 ~ 60 °C; 1064nm, 532nm, 355nm wavelength optional; Typical application; Lidar; Laser micromachining; Nonlinear spectroscopy; Terahertz generation.

## PARAMETERS

Model	CL1064-120μJ-PQNL007	CL1064-240μJ-PQNL008	CL1064-400μJ-PQNL009	
Optical Parameter	Energy @1064nm (uJ)	>120	>240	>400
	Energy Stability	<3%	<3%	<3%
	Repeat Frequency (Hz)	1~500	1~100	1~100
	Pulse Width (ns)	<1.5	<1.5	<1.5
Function Parameter	Control Interface	DB9, RS422	DB9, RS422	DB9, RS422
	Cooling Method	Air-cooled	Air-cooled	Air-cooled
	Powered By	220VAC/50Hz	220VAC/50Hz	220VAC/50Hz
	Output Power (W)	<50	<80	<100
Environmental Requirements	Operating Temperature (°C)	15-40	15-40	15-40
	Storage Temperature (°C)	-5-60	-5-60	-5-60
	Humidity	0-80%	0-80%	0-80%
Weight and Size	Laser Weight (Kg)	<10	<12	<15
	Laser Size (mm)	441*117*96	480*120*96	520*120*96

## FEATURES

- Structural design of passive Q-switched microchip
- Narrow pulse width, high peak power
- High stability and compact structure
- Integrated photodetector

## APPLICATION

- Widely used in laser radar, point cloud imaging radar, ranging, laser remote sensing, photoelectric detection, laser fine processing and other fields.

## OUTLINE SIZE(mm)

