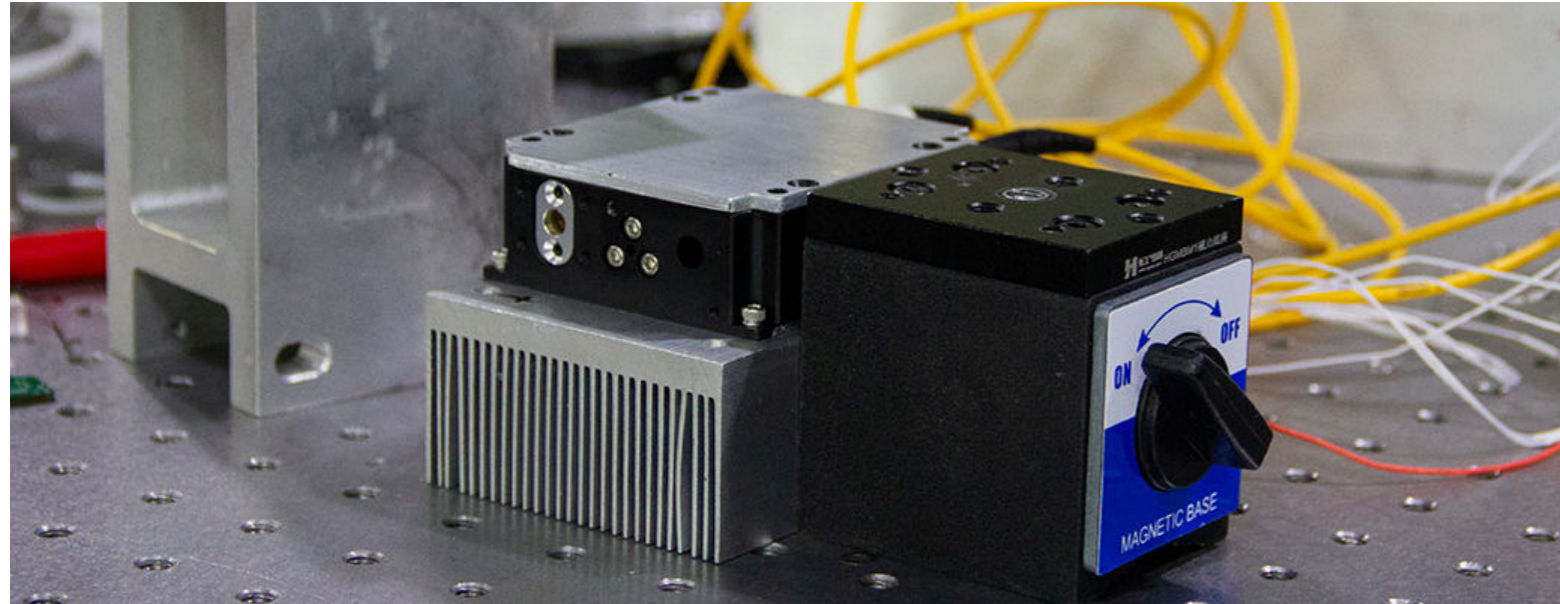


1064nm Active Q-switched Sub Nanosecond Laser



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 μ s. 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.

FEATURES

- Active Q
- Narrow pulse width and high peak power
- High stability and compact structure
- High beam quality

APPLICATION

- Laser Radar
- Point Cloud Imaging Radar
- Ranging
- Laser Remote Sensing
- Photoelectric Detection
- Laser Fine Processing

PARAMETERS

Model	CL1064-6mJ-AQNL004	CL1064-10mJ-AQNL005	CL1064-20mJ-AQNL006	
Optical Parameter	Energy @1064nm (mJ)	6	10	20
	Energy Stability	<3%	<3%	<3%
	Repeat Frequency (KHz)	1~10	1~5	1~5
	Pulse Width (ns)	<1.5	<1.5	<1.5
	Beam Quality M ²	<2	<2	<2.5
	Divergence (full angle) (mrad)	<1	<1	<1
	Spot diameter (1/e ²) (mm)	~2	~2	~4
Function Parameter	Control Interface	DB9, RS422	DB9, RS422	DB9, RS422
	Cooling Method	Water cooling	Water cooling	Water cooling
	Powered By	220VAC/50Hz	220VAC/50Hz	220VAC/50Hz
Environmental Requirements	Operating Temperature (°C)	15-35	15-35	15-35
	Storage Temperature (°C)	-15-50	-15-50	-15-50
	Humidity	0-80%	0-80%	0-80%
Weight and Size	Power Weight	Customized	Customized	Customized
	Laser Head Size	Customized	Customized	Customized
	Power Size	Customized	Customized	Customized

OUTLINE SIZE(mm)

