

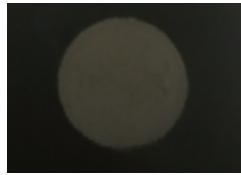
# HQF Series Sub-nanosecond Lamp Pumped Solid State Laser

## Key Features

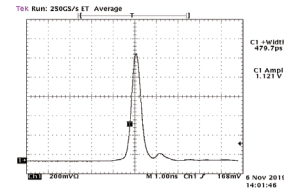
- ◆ Single pulse energy up to 500mJ
- ◆ Peak power up to 1.5GW
- ◆ Repetition rate up to 10Hz
- ◆ Excellent beam homogeneity
- ◆ Great stability
- ◆ Compact design, sealed package, high reliability

## Applications

- Laser ranging
- Aesthetic medicine
- Differential absorption lidar
- Particle image velocimetry (PIV)
- Laser shock processing (LSP)
- Laser-induced breakdown spectroscopy (LIBS)
- Laser-based ultrasound detection
- Laser-induced fluorescence (LIF)
- Tissue ablation
- Non-linear optics



Beam profile of the amplified pulse



Typical pulsewidth

## Technical Specifications

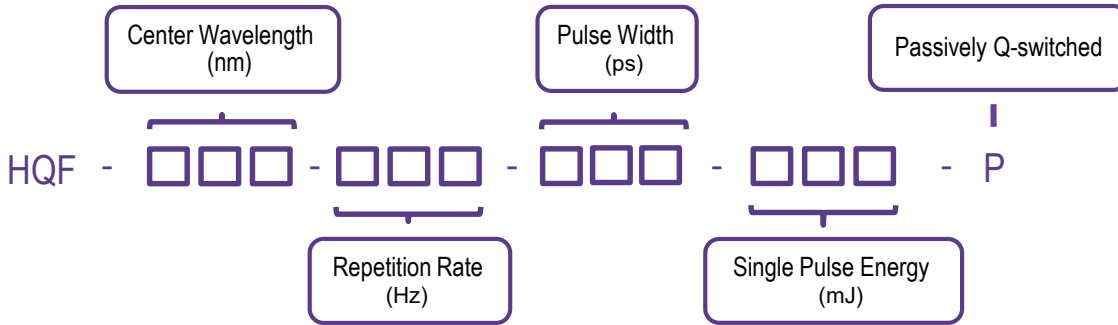
Part Number		HQF-1064/532-10-350-500/300-P	HQF-1064/532-10-500-350/200-P
Repetition rate (Hz)		1~10	1~10
<b>Pulse energy (mJ)</b>			
1064nm		500	350
532nm		300	200
<b>Energy stability RMS</b>			
1064nm		<2%	<3%
532nm		<3%	<4%
<b>Power drift<sup>1</sup></b>			
1064nm		<2%	
532nm		<3%	
<b>Other parameters</b>			
Pulse width FWHM (ps)		350	500
Beam full divergence (typ., mrad)	Horizontal @1/e <sup>2</sup>	<3	
	Vertical @1/e <sup>2</sup>	<3	
Beam diameter (mm)		~11	
Spatial profile		Top hat	
Polarization direction		Vertical	
Electrical supply		220VAC±5% 50~60Hz	
Power consumption		<1kW(500mJ@10Hz)	
Environment requirements		temperature 5~35°C , humidity <80%	

1. Average energy variation is measured at room temperature with fluctuations less than 3°C within 8 hours.
2. As products are constantly being updated, the right of final interpretation of technical specifications or illustrations in datasheet belongs to RealLight.

## Order Information

Wavelength (nm)	Part Number	Repetition Rate (Hz)	Pulse Width (ps)	Single Pulse Energy (mJ)
1064/532	HQF-1064/532-10-350-500/300-P	1~10	350	500@1064 300@532
	HQF-1064/532-10-500-350/200-P	1~10	500	350@1064 200@532

## Part Numbering Schema



## Mechanical Drawings (in mm)

