

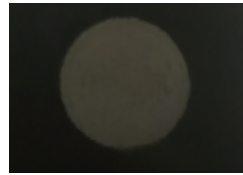
HQF Series Lamp-pumped Picosecond MOPA Laser

Key Features

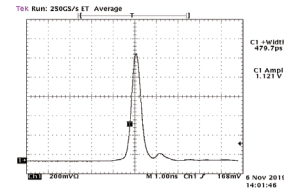
- ◆ Single pulse energy up to 500mJ
- ◆ Peak power up to 1.5GW
- ◆ Repetition rate up to 10Hz
- ◆ Excellent beam homogeneity
- ◆ Great stability
- ◆ Compact design, sealed package, high reliability

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
Pulse energy (mJ)			
1064nm		500	350
532nm		300	200
Energy stability RMS			
1064nm		<2%	<3%
532nm		<3%	<4%
Power drift¹			
1064nm		<2%	
532nm		<3%	
Other parameters			
Pulse width FWHM (ps)		350	500
Beam full divergence (typ., mrad)	Horizontal @1/e ²	<3	
	Vertical @1/e ²	<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%	

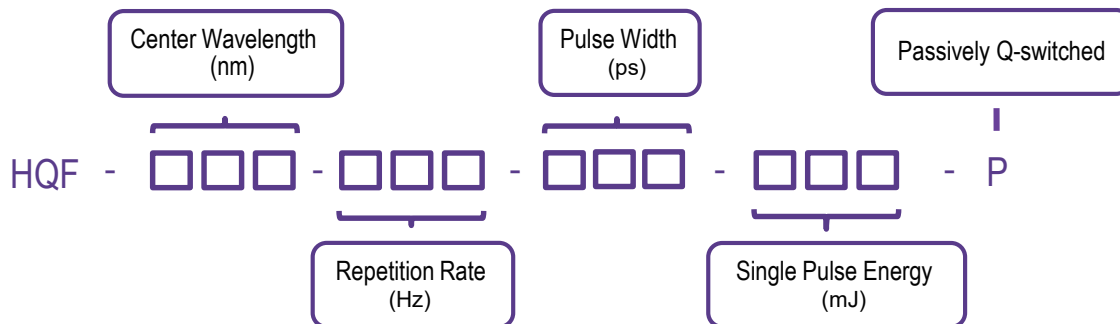
1. Average energy variation is measured at room temperature with fluctuations less than 3°C within 8 hours.

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)

