



Electro Optical Components, Inc.

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HQF Series Cost-effective Sub-nanosecond Lamp Pumped Solid State Laser



Key Features

- ◆ Single pulse energy up to 400mJ;
- ◆ High peak power;
- ◆ Repetition rate up to 5Hz;
- ◆ Excellent beam homogeneity;
- ◆ Great stability;
- ◆ Compact design, sealed package, high reliability;

Technical Specifications

Part Number		HQF-1064/532-5-400-400/200-P
Repetition rate (Hz)		1~5
Pulse energy (mJ)		
1064nm		400
532nm		200
Energy stability RMS		
1064nm		<2%
532nm		<3%
Power drift ¹		
1064nm		2%
532nm		3%
Other parameters		
Pulse width FWHM (ps)		400
Beam full divergence (typ., mrad)	Horizontal @1/e ²	<3
	Vertical @1/e ²	<3
Beam diameter (mm)		~11
Spatial profile		Top hat
Polarization state		Vertical
Electrical Supply		220VAC±5% 50-60Hz
Power consumption		<1kW(400mJ@5Hz)
Environment requirements		temperature 5~35°C, humidity <80%

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

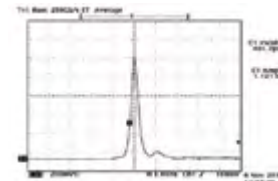
Others: Power supply or articulated arm is available upon request.

Applications

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

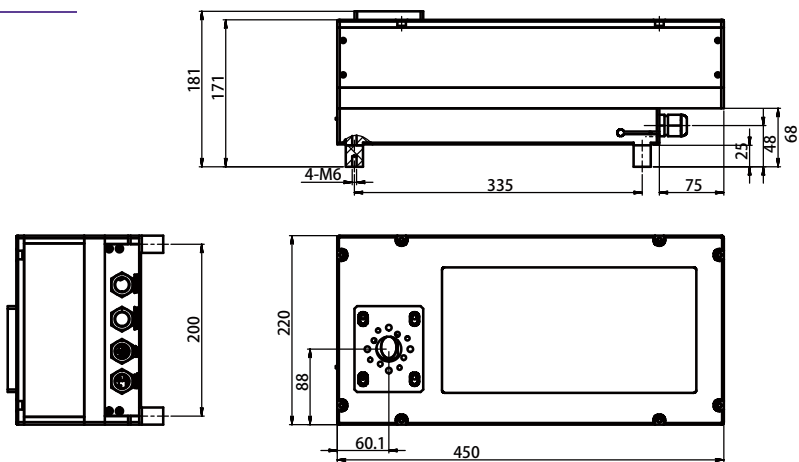


Beam profile of the amplified pulse



Typical pulsewidth

Mechanical Drawings (in mm)



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