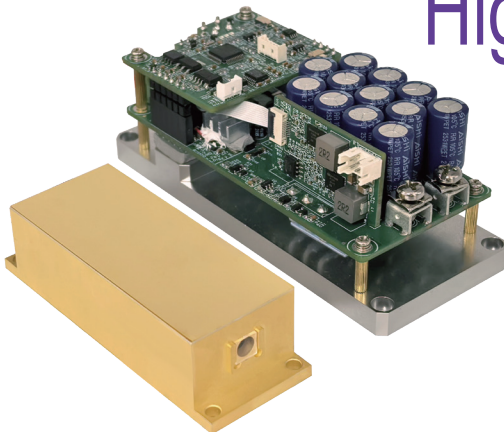


PQE Series

High Energy Solid-state Laser



This series of solid-state lasers are RealLight's self-developed, passively Q-switched diode-pumped solid-state lasers, featuring high energy, good value and low power consumption. The integrated design of diode-pumped module and laser crystal results in the compactness. And water cooling is not required for this laser. This series is also available with miniaturized drive boards for OEM control for applications include LIBS and laser ablation, which is easy to install and integrate, and is suitable for handheld devices.

Key Features

- ◆ Pulse width < 3ns
- ◆ Pulse energy >10mJ
- ◆ Compact size, no water cooling required
- ◆ Suitable for handheld devices
- ◆ Cost effective

Applications

- Laser ablation
- Laser-induced breakdown spectroscopy (LIBS)
- Optical damage threshold testing

Technical Specifications

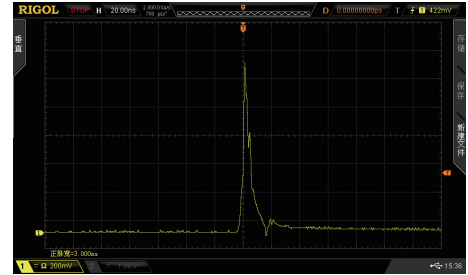
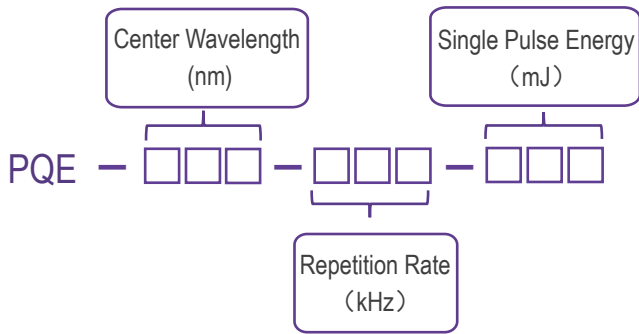
| Optical Parameters | | |
|--------------------------------------|------------------------------|---|
| Part Number | PQE-1064-0.01-10 | |
| Wavelength(nm) | 1064 | |
| Repetition rate(Hz) | 10 | |
| Pulse energy (mJ) | >10 | |
| Pulse width (ns) | <3 | |
| Power stability (RMS) | <3% | |
| Full angle divergence typ. (mrad) | Horizontal @1/e ² | 3 |
| | Vertical @1/e ² | 3 |
| Cooling method | air cooling | |
| Laser dimensions (W×H×L,mm) | 83×30×22.1 | |
| Operation temperature (°C) | 10~35 | |
| Storage temperature (°C) | -20~60 | |
| Driver Parameters | | |
| Supply power voltage | 12VDC | |
| Control interface | RS-232,I/O | |
| Power consumption (W) | 20W (MAX) | |
| Drive board dimensions (W×H×L,mm) | 45×39.6×110.3 | |
| Trigger mode | Trigger In/Out | |

All the data in the above table are the typical values obtained from the tests at room temperature of 25°C, and the final data is subject to the final test report.

Order Information

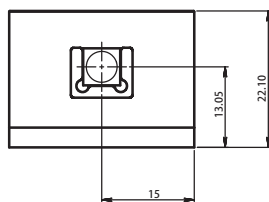
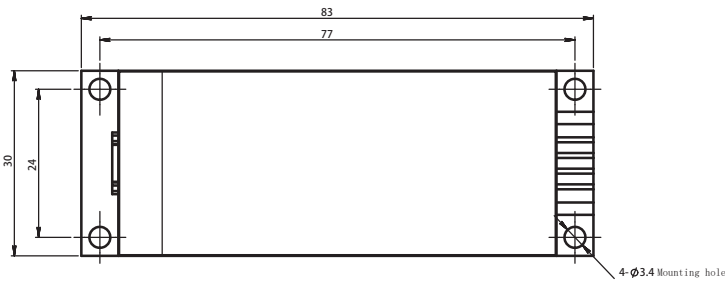
| Wavelength (nm) | Part Number | Repetition rate(kHz) | Pulse energy(mJ) |
|-----------------|------------------|----------------------|------------------|
| 1064 | PQE-1064-0.01-10 | 0.01 | 10 |

Part Numbering Schema

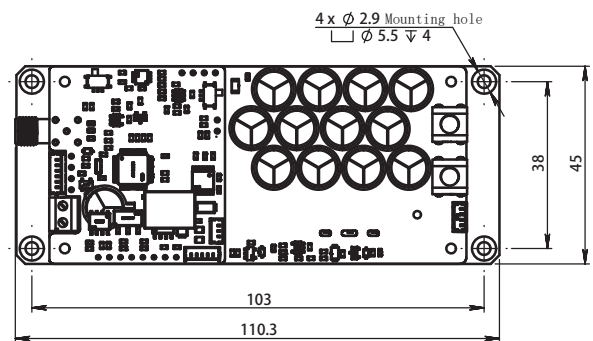
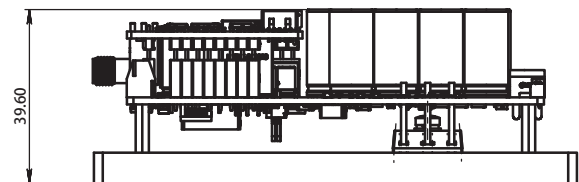


Typical pulse width

Mechanical Drawings (in mm)



Laser Head



Board

