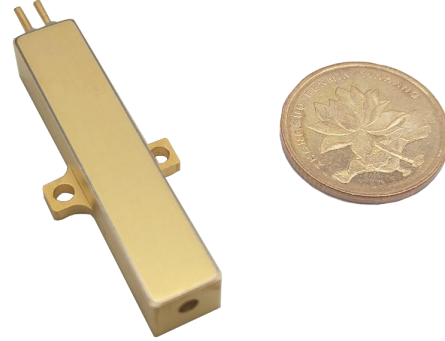


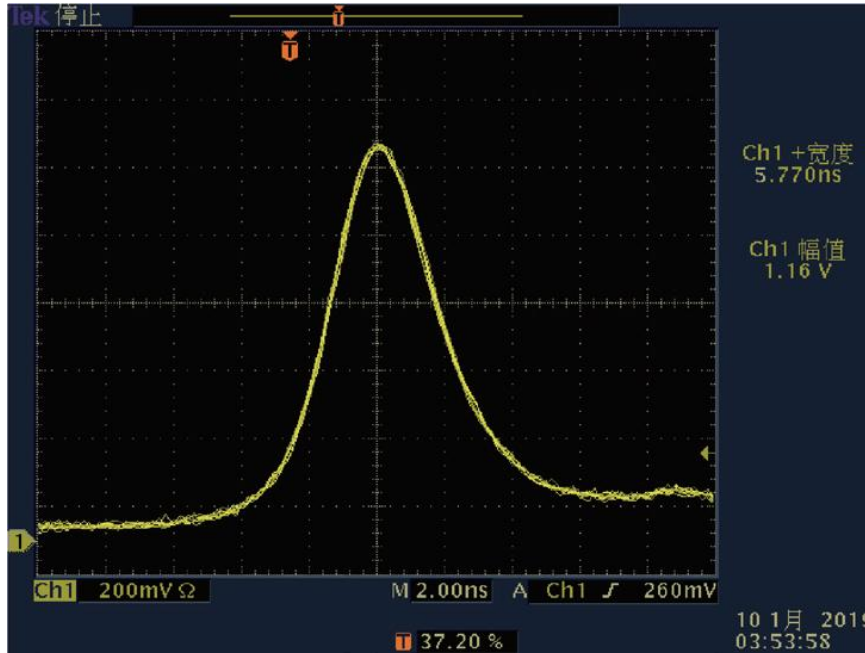
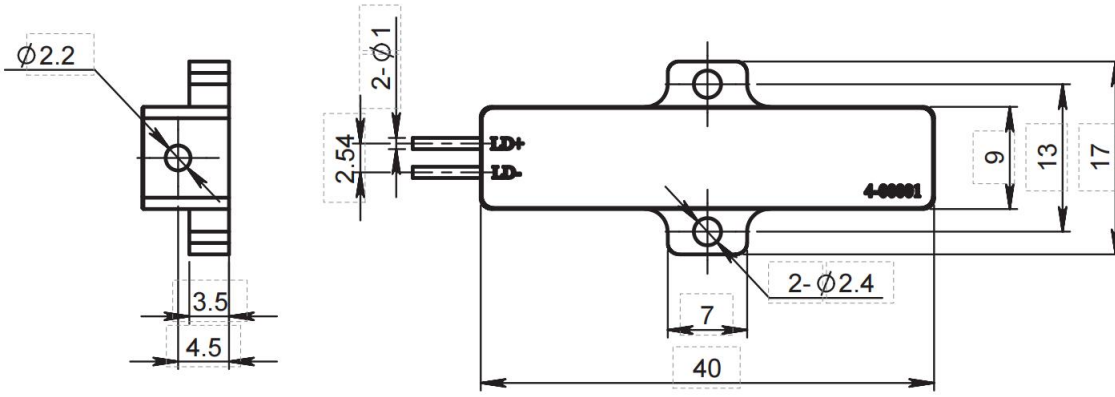
**1mJ 1535nm Eye-safe DPSS Erbium Glass Laser****Model:ER1000****PRODUCT DESCRIPTION**

The 1535nm erbium glass laser operates within the eye-safe wavelength range, offering significant advantages in applications such as laser ranging and radar systems. This series of lasers boasts pure, tail-free pulses with stable single-pulse energy and excellent beam quality. The integration of a semiconductor pumping module and laser crystal, along with its compact and sleek packaging, facilitates easy installation and integration. It delivers an impressive maximum output energy of up to 1mJ.

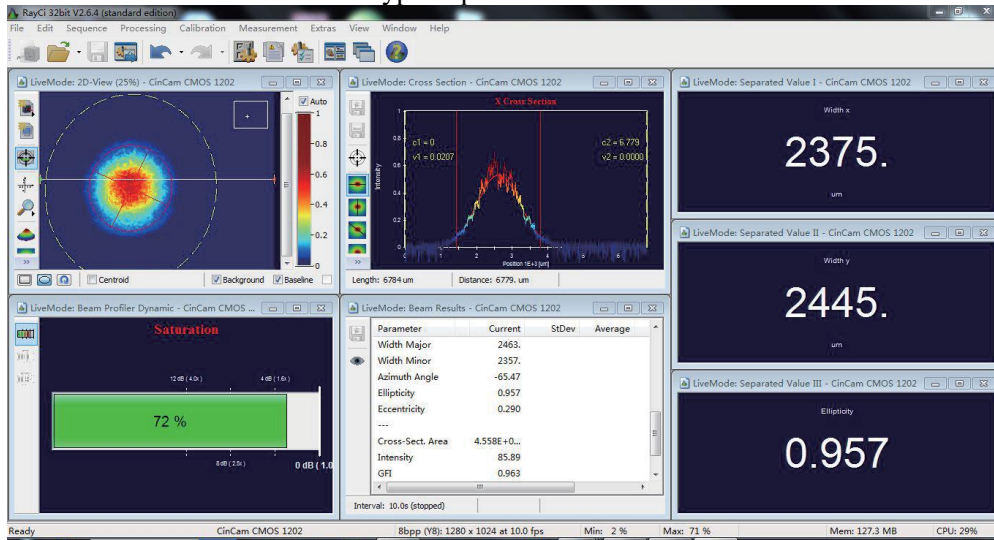
**TECHNICAL SPECIFICATIONS**

Laser Wavelength	1535 nm
Eyesafe	Class 1
Pulse energy	≥1mJ
Laser Pulse width	8 ns
Pulse repetition rate	1~5Hz
Pulse stability	10%
Raw Beam Diameter	0.4mm
Beam divergence angle	7 mrad
Beam Mode	TEM <sub>00</sub>
Energy Stability (RMS)	3%
Operating temperature	-40 °C~+65 °C
Storage temperature	-55 °C~+80 °C
Impact	1500 G, 0.5 ms
Vibration	20~2000 Hz/20 G
Life span	>5 million times
Dimension (mm)	40x9x7.7
weight	20g
Voltage	2 V
electric current	30 A
Drive pulse width	≥1.8ms

**MECHANICAL DIMENSION(mm)**

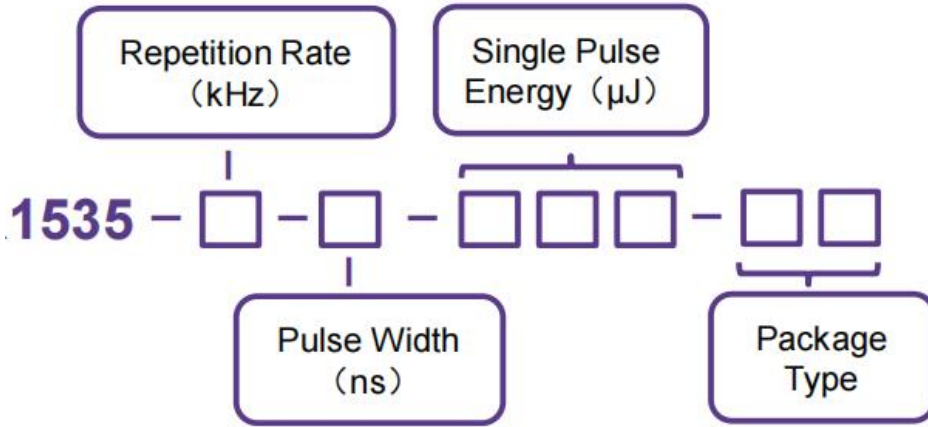


Typical pulse waveform



Spot shape

**PART NUMBERING SCHEMA**



**PIN DESCRIPTIONS**

Pin	Function
1	Laser (+)
2	Laser (-)

**INSTRUCTIONS FOR USE**

- When operating the laser, avoid direct laser exposure to eyes and skin.
- Anti-static measures must be taken during transportation, storage, and use.
- The laser's leads should be connected using welding.
- The welding point should be as close as possible to the base of the pin.
- The welding temperature should be below 260°C, and the welding time should be less than 3 seconds.
- The laser should be used at its rated current.
- Ensure proper heat dissipation when the laser is operating.
- Operating temperature range: -40°C to +65°C.
- Storage temperature range: -55°C to +80°C.

