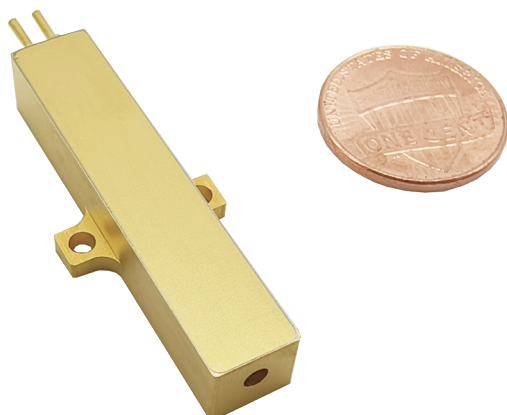


# 800~1000 $\mu$ J 1535nm Erbium Glass Lasers



RealLight's 1535nm Erbium glass lasers operate in the eyesafe wavelength regime, have great advantages in applications including laser ranging and LiDAR. This series of lasers feature no tail pulse, stable pulse energy and excellent beam profile. The integrated design of diode-pumped module and laser crystal brings convenience to installation and integration due to the compact size. The output power of this series is up to 1mJ.

## Technical Specifications

Wavelength (nm)	1535	
Pulse energy ( $\mu$ J)	800	1000
Repetition rate (Hz)	5	
Pulse width (typ., ns)	8	
Energy Stability (RMS)	3%	
Beam full divergence (typ., mrad)	7	
Beam profile	TEM <sub>00</sub>	
Operating current (A)	30	
Operating Voltage (V)	2	
Dimensions (L×W×H,mm)	40×9×7.65	
Weight (g)	20	
Operation temperature (°C)	-40~65	
Storage temperature (°C)	-45~80	

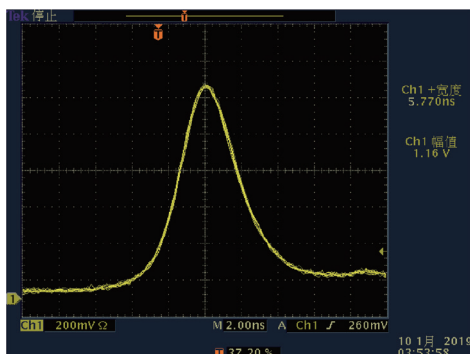
All the data in the above table are the typical values obtained from the tests at room temperature of 25°C, and the final data is subject to the final test report.

## Applications

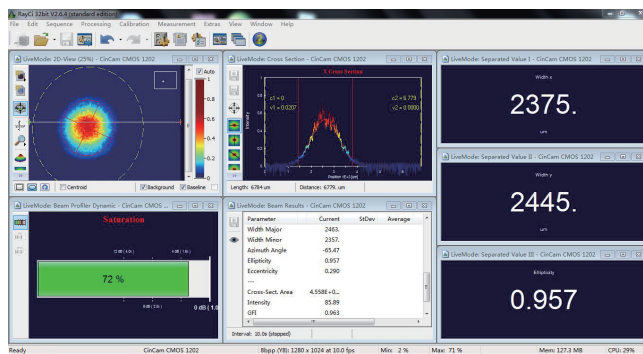
Laser rangefinder  
Meteorological radar

## Key Features

- ◆ Passively Q-Switched, Er: Glass
- ◆ Eye-safe
- ◆ Extremely light
- ◆ Super compact design
- ◆ Wide operating temperature range



Typical Pluse

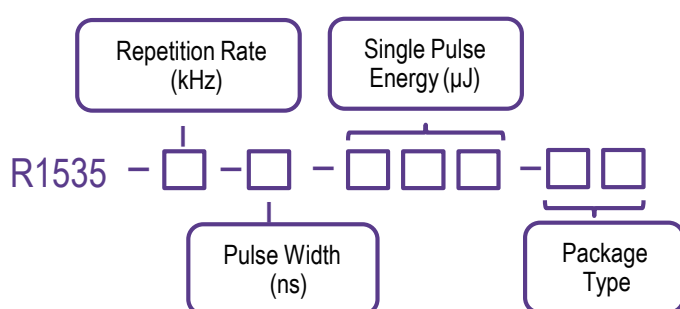


Beam Profile

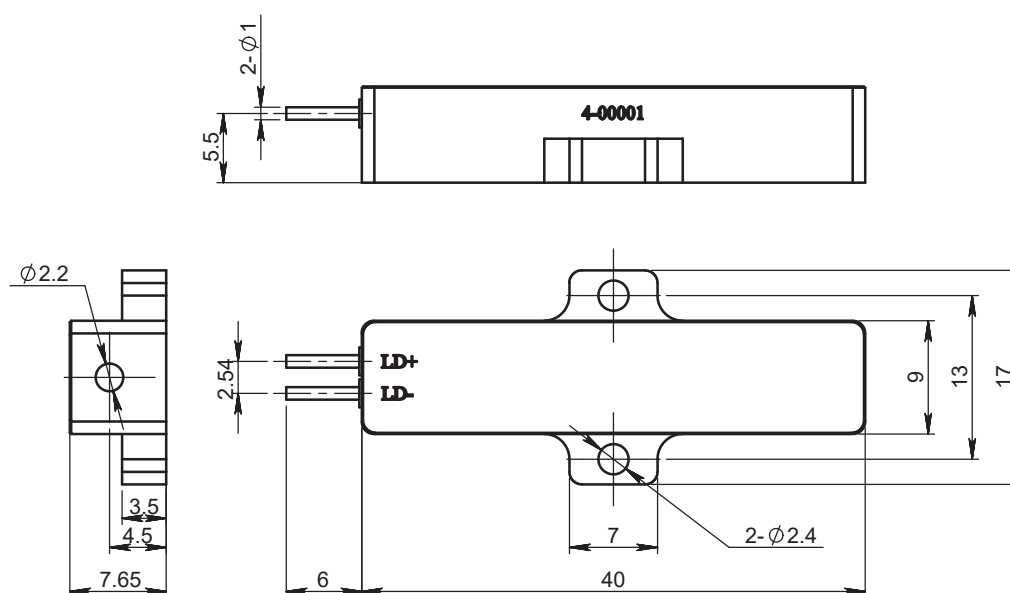
## Order Information

Wavelength ( nm )	Part Number	Repetition rate (Hz)	Pulse width (ns)	Pulse energy ( $\mu$ J)	Dimensions (mm)
1535	R1535-0.005-8-800-F4A	5	8	800	40x9x7.65
	R1535-0.005-8-1000-F4A	5	8	1000	40x9x7.65

## Part Numbering Schema



## Mechanical Drawings (in mm)



F4A Drawing

