

# 1535nm 100~300µJ Erbium Glass Lasers with PIN



RealLight's 1535nm Erbium glass lasers with photodetector (PIN) operate in the eyesafe wavelength regime, have great advantages in applications including laser ranging and LiDAR. This series of lasers are equipped with integrated photodetector(PIN), providing PD output signal, 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.

#### **Applications**

Laser rangefinder

Meteorological radar

### **Technical Specifications**

Wavelength ( nm )	1535			
Pulse energy (µJ)	100	200	300	
Repetition rate (Hz)	10			
Pulse width (typ., ns)	5			
Energy Stability (RMS)	3%			
Beam full divergence (typ., mrad)	10		9	
Beam profile	TEM <sub>00</sub>			
PIN amplitude (V@50Ω resistance)	2~3			
Operating current (A)	8	8	12	
Operating Voltage (V)	2			
Dimensions (L×W×H,mm)	25x8x7			
Weight (g)	10			
Operation temperature (°C)	-40~65			
Storage temperature (°C)	-45~80			

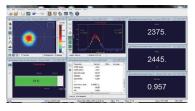
All the data in the above table are the typical values obtained from the tests at room temperature of 25°C, and the final data is subject to the final test report.

## **Key Features**

- Integrated PIN, provides PD output signal
- Passively Q-Switched, Erbium Glass
- Eye-safe
- Extremely light



PIN signal and amplitude



Beam Profile

#### **Order Information**

Wavelength ( nm )	Part Number	Repetition rate (Hz)	Pulse width (ns)	Pulse energy (μJ)	Dimensions (mm)
1535	R1535-0.01-5-100-F2B	10	5	100	25x8x7
	R1535-0.01-5-200-F2B	10	5	200	
	R1535-0.01-5-300-F2B	10	5	300	

## Mechanical Drawings (in mm)

