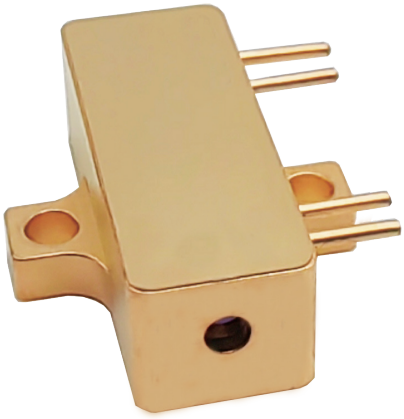
1535nm 100~300μJ Microchip Laser with PIN



RealLight's 1535nm microchip laser modules with photodetector (PIN) operate in the eyesafe wavelength regime, have great advantages in applications including laser ranging and LiDAR. This series of laser modules 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 range finder

Meteorological radar

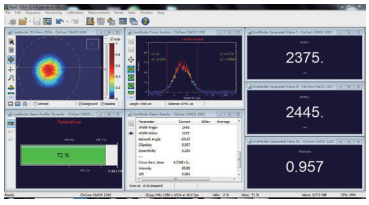
Key Features

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

Technical Specifications

Wavelength (nm)	1535		
Pulse energy (μJ)	100	200	300
Pulse width (ns)	5		
Repetition rate (Hz)	10		
Operating current (A)	8	10	12
PIN amplitude (V@50Ω resistance)	2~3		
Beam full divergence (typ., mrad)	10		8
Beam profile	TEM_{00}		
Weight (g)	8		10
Dimensions (W×H×L,mm)	21x8x7		25x8x7
Operation temperature (℃)	-40~65		
Storage temperature (℃)	-55~80		

PIN signal and amplitude

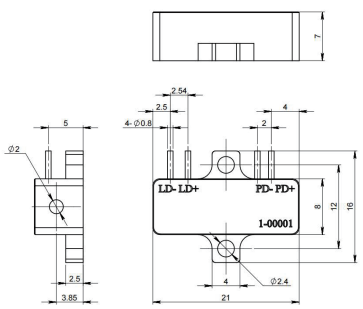


Beam Profile

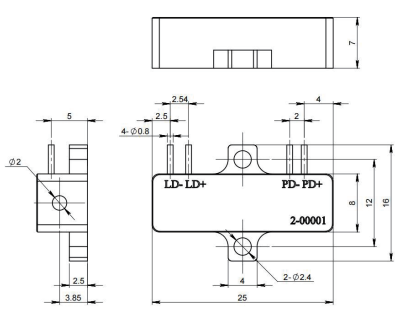
Order Information

Wavelength (nm)	Part Number	Repetition rate (Hz)	Pulse width (ns)	Pulse energy (μJ)	Dimensions (mm)
1535	R1535-0.01-5-100-F1B	10	5	100	21x8x7
	R1535-0.01-5-200-F1B	10	5	200	21x8x7
	R1535-0.01-5-300-F2B	10	5	300	25x8x7

Mechanical Drawings (in mm)



F1B



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