



## 100μJ Microchip Laser Module

Model:ER100

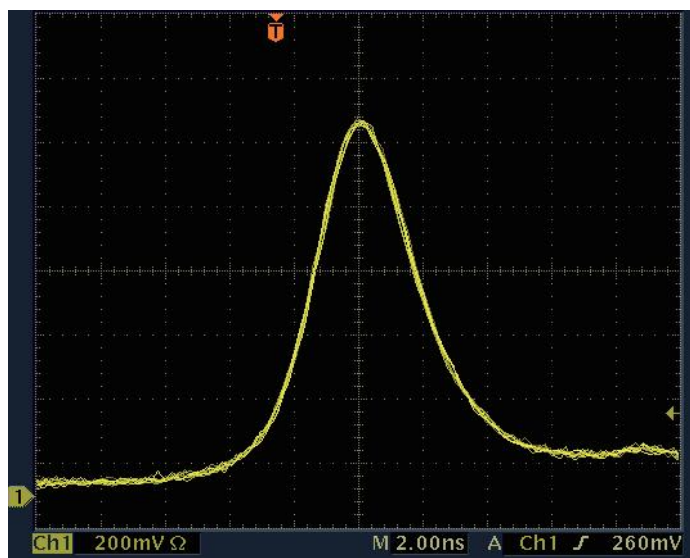
### OVERVIEW

ERDI's high-peak-power laser, developed using Er<sup>3+</sup> and Yb<sup>3+</sup> co-doped phosphate glass, operates at a safe wavelength for human eyes. It boasts high peak power, narrow pulse width, non-temperature-controlled operation, small size, lightweight, and low power consumption. The output energy of this product is no less than 100μJ and is mainly used in the field of laser distance measurement, such as laser rangefinder telescopes, unmanned aerial vehicles (UAVs), rifle sights, helmets, and guidance heads..

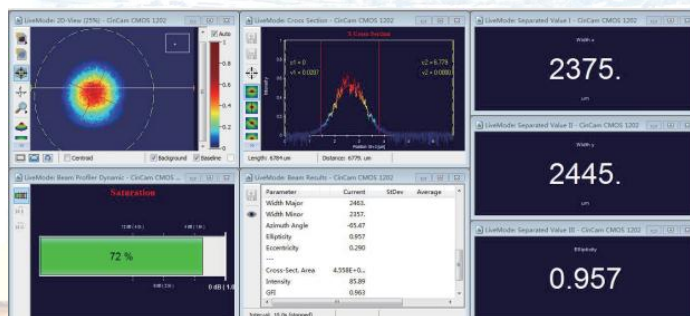


### TECHNICAL SPECIFICATIONS

Wavelength	1535 nm
Eye safe	Class 1
Pulse energy	≥100 μJ
Pulse width	3 . 5 ns
Pulse repetition rate	1~20 Hz
Pulse stability	10%
Spots diameter	0 .25 mm
Beam divergence angle	10 mrad
Spots mode	TEM00
Operating temperature	-45 °C~+65 °C
Storage temperature	-55 °C~+85 °C
Impact	1500 G, 0 . 5 ms
Vibration	20~2000 Hz/20 G
Life span	>50 million shots
Dimension (mm)	21x8x5
Weight	8 g
Voltage	2 V
Current	6 A
Pulse width	≥2 ms



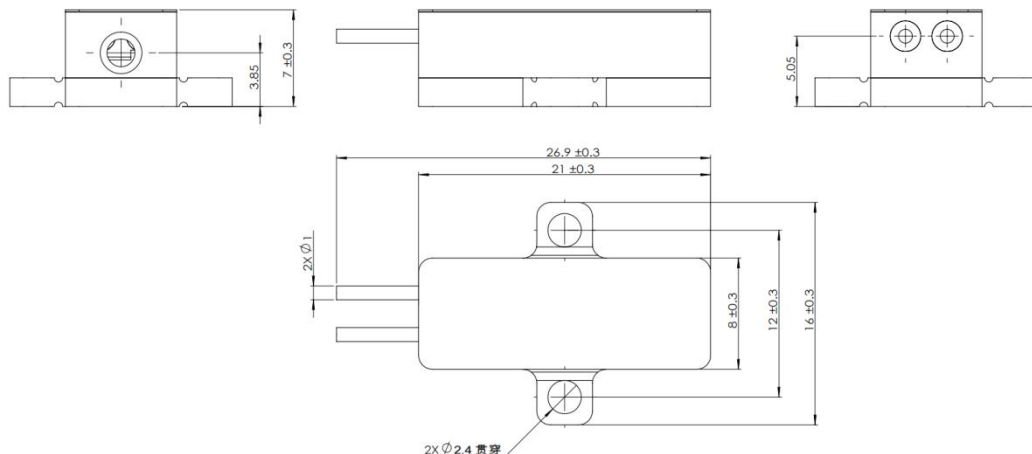
Beam Profile



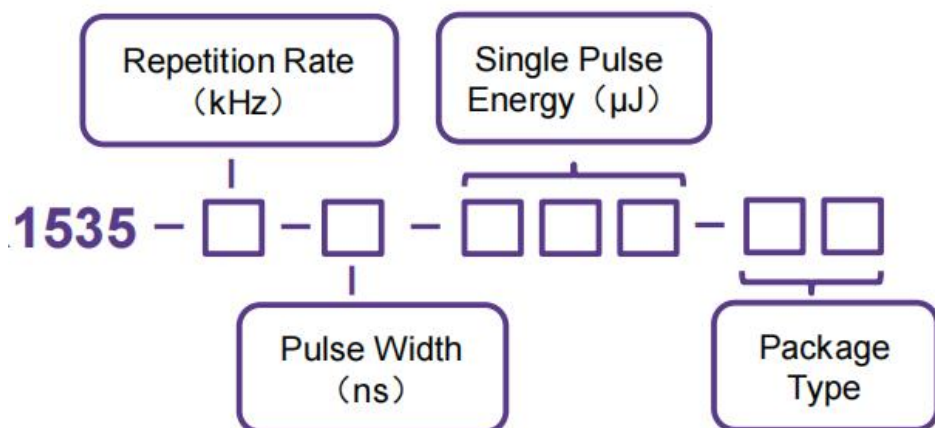
Typical Pulse



## MECHANICAL DIMENSION (mm)



## PART NUMBERING SCHEMA



## PIN DESCRIPTIONS

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

