200μJ Microchip Laser Module

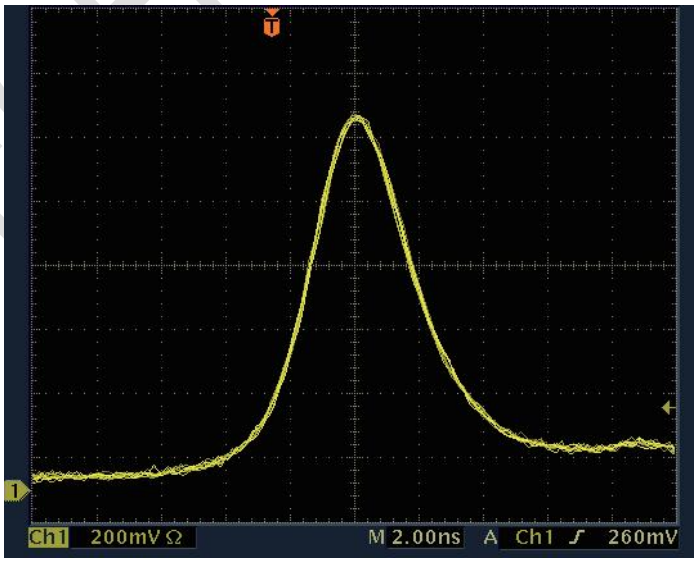
Model:ER200

PRODUCT DESCRIPTION

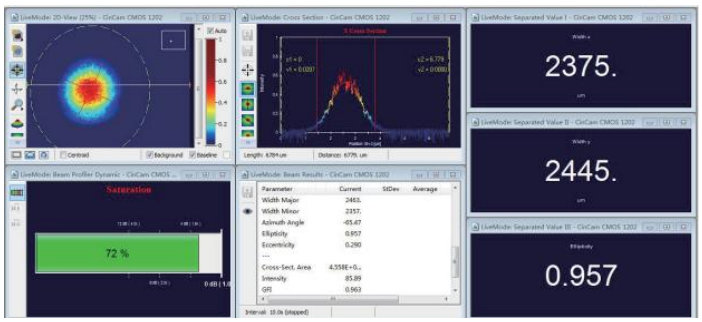
The wavelength of this 1535nm laser falls precisely between the human eye and atmospheric windows, making it widely studied in the fields of laser ranging and electronic communication. Er,Yb: glass lasers are commonly used in low pulse repetition rate laser rangefinders. This eye-safe laser with a pulse energy ≥200μJ can achieve a range of 3-8 kilometers for distance measurement. Additionally, it is extensively applied in areas such as laser ranging, laser illumination, lidar systems, target identification, medical treatments using lasers, and fiber optic communications.

TECHNICAL SPECIFICATIONS

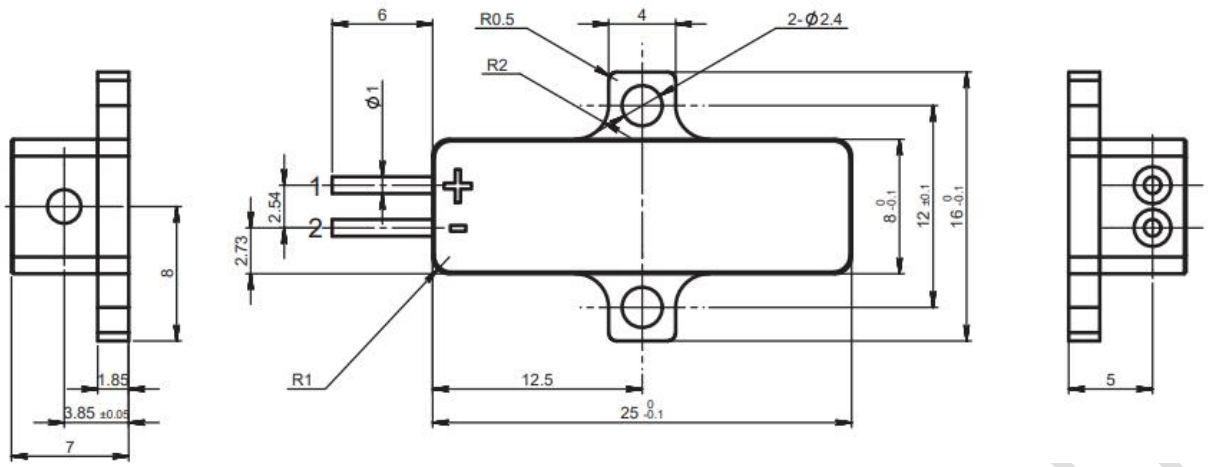
Laser Wavelength	1535 nm
Eyesafe	Class 1
Pulse energy	≥200 μJ
Laser Pulse width	4 ns
Pulse repetition rate	1~10 Hz
Pulse stability	10%
Raw Beam Diameter	0.2 mm
Beam divergence angle	10 mrad
Beam Mode	TEM_{00}
Operating temperature	-45 ℃~+65 ℃
Storage temperature	-55 ℃~+85 ℃
Impact	1500 G, 0.5 ms
Vibration	20~2000 Hz/20 G
Life span	＞5 million times
Dimension (mm)	25x8x7
weight	8 g
Voltage	2 V
electric current	12 A
Drive pulse width	≥1.8 ms



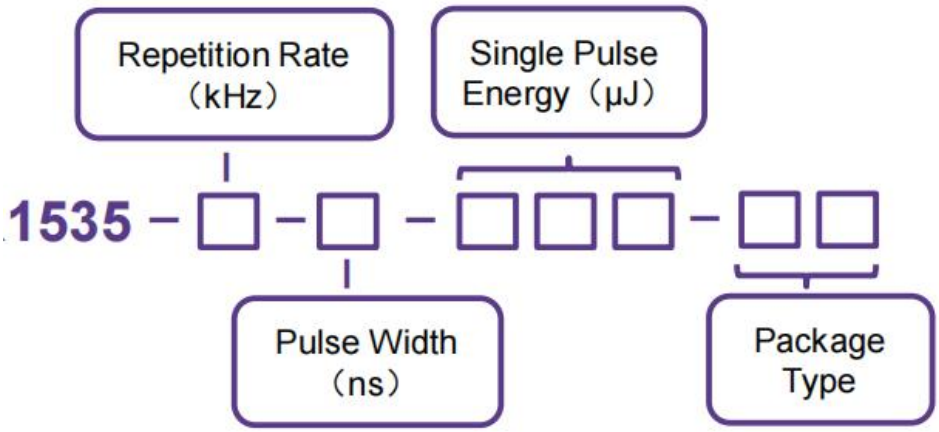
Beam Profile



MECHANICAL DIMENSION(mm)



PART NUMBERING SCHEMA



PIN DESCRIPTIONS

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