20 μ J Erbium Glass 2KHz High Repetition Rate Laser

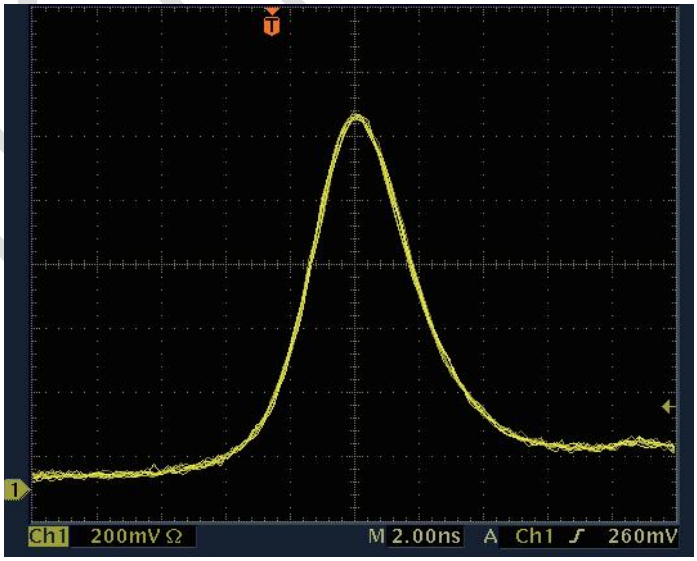
Model:ER20

PRODUCT DESCRIPTION

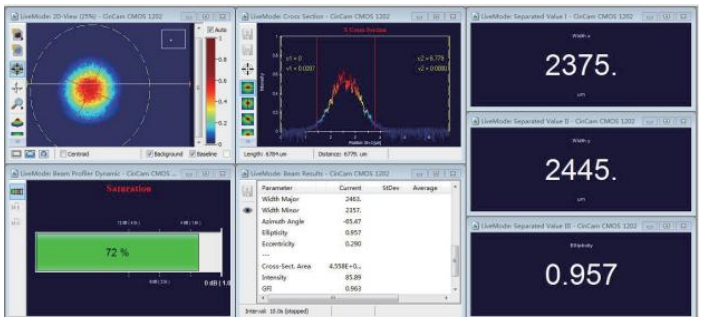
The 1535nm High - Heavy Frequency Erbium Glass Laser Module is a high - heavy frequency, human - eye - safe laser developed by ERDI TECH LTD. It is based on the Er:glass passive Q - modulation technology. This laser adopts the semiconductor packaging process, featuring a compact size and stable performance. The single - pulse energy is stable, and the beam quality is good. We can customize different parameters, such as 70 μJ @ 500Hz, 40 μJ @ 1KHz, 20 μJ @ 2KHz, 10 μJ @ 5KHz, and 5 μJ @ 10KHz. These lasers are widely used in laser ranging, laser irradiation, LIDAR, target identification, as well as laser medicine and fiber - optic communication.

TECHNICAL SPECIFICATIONS

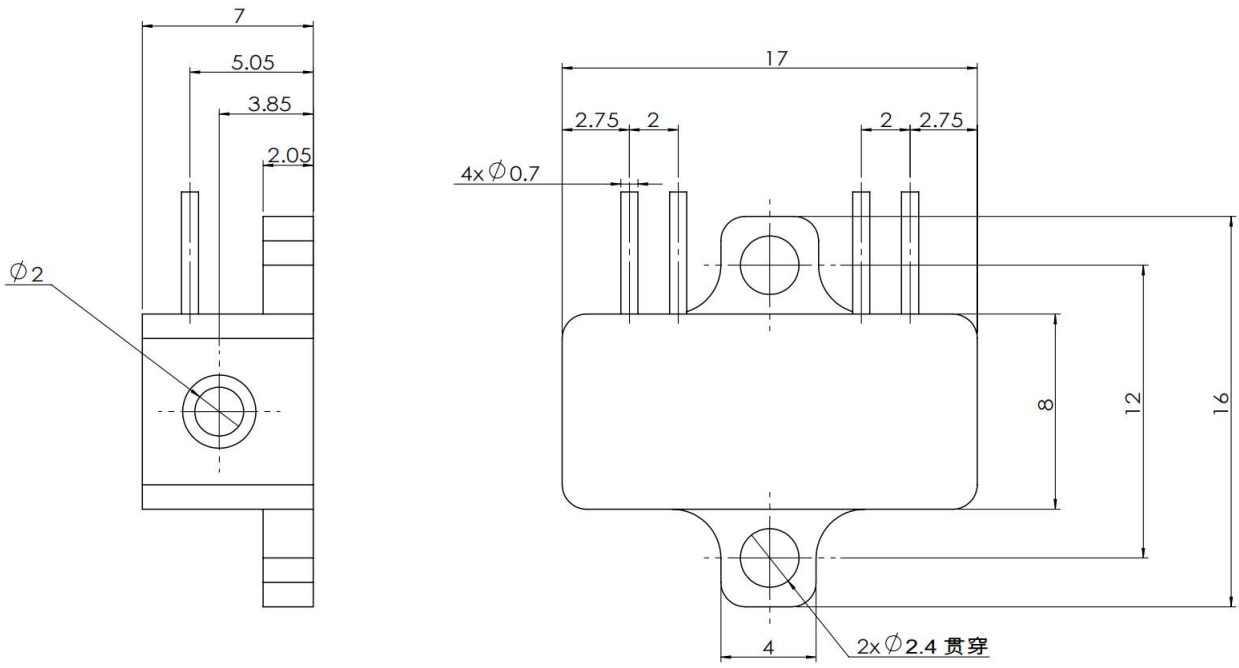
Wavelength	1535 nm
Eyesafe	Class 1
Pulse energy	≥20 μJ
Laser Pulse width	5 ns
Pulse repetition rate	2KHz
Pulse stability	10%
Raw Beam Diameter	0 .2 mm
Beam divergence angle	＜15 mrad
Beam Mode	TEM_{00}
Operating temperature	-45 ℃~+65 ℃
Storage temperature	-55 ℃~+85 ℃
Impact	1500 G, 0 . 5 ms
Vibration	20~2000 Hz/20 G
Life span	＞5 million times
Dimension (mm)	17×8×7
weight	6 g
Voltage	2 V
electric current	3 A
Drive pulse width	≥0.3ms



Beam Profile



MECHANICAL DIMENSION(mm)



PART NUMBERING SCHEMA