



300μJ Microchip Laser Module

Model:ER300

OVERVIEW

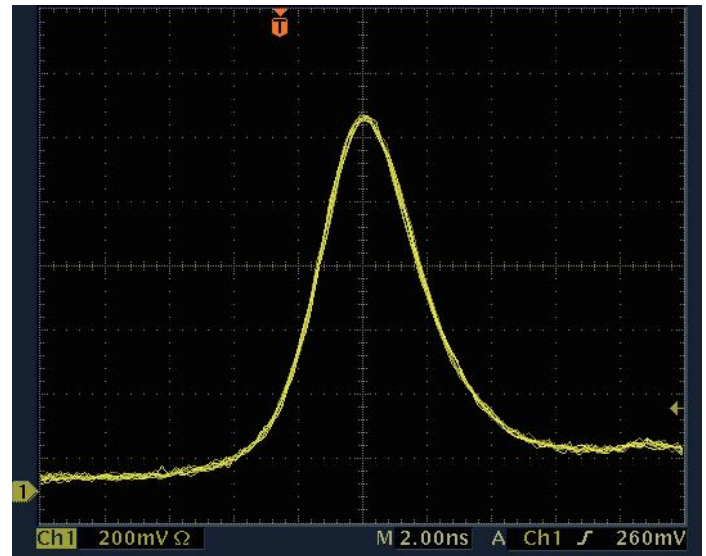
The 1.54μm Micro-Pulse Er:Yb Glass Laser is a compact and efficient laser designed for laser integration. Utilizing Er:Yb co-doped glass as the laser medium, this laser operates at a safe wavelength of 1.54μm, meeting the requirements for human eye safety. With a pulse energy of no less than 300μJ and a pulse width of 10ns, it delivers 1535nm laser output with a repetition frequency ranging from 1Hz to 20Hz. The laser's versatile applications include laser rangefinder telescopes, unmanned aerial vehicles (UAVs), rifle sights,

helmets, guidance heads, and analytical instruments in the field of laser distance measurement.

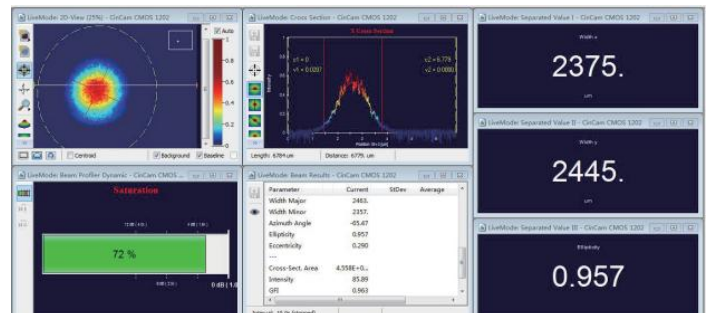


TECHNICAL SPECIFICATIONS

Wavelength	1535 nm
Eye safe	Class 1
Pulse energy (Min./Typ.)	≥300 μJ
Pulse width, Typ.(FWHM)	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)	25x8x7
Weight	8 g
Voltage	2 V
Current	12 A
Pulse width	≥2.5 ms



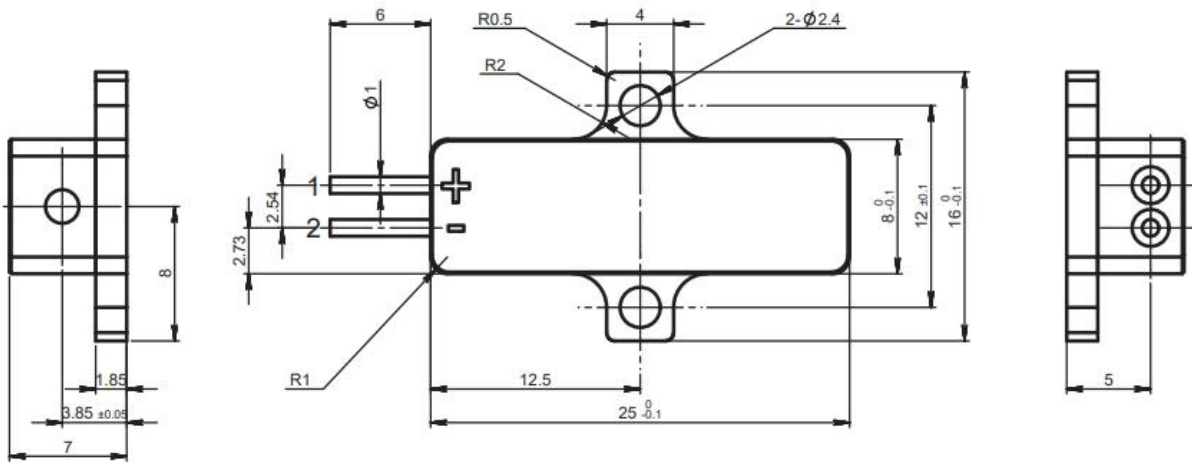
Beam Profile



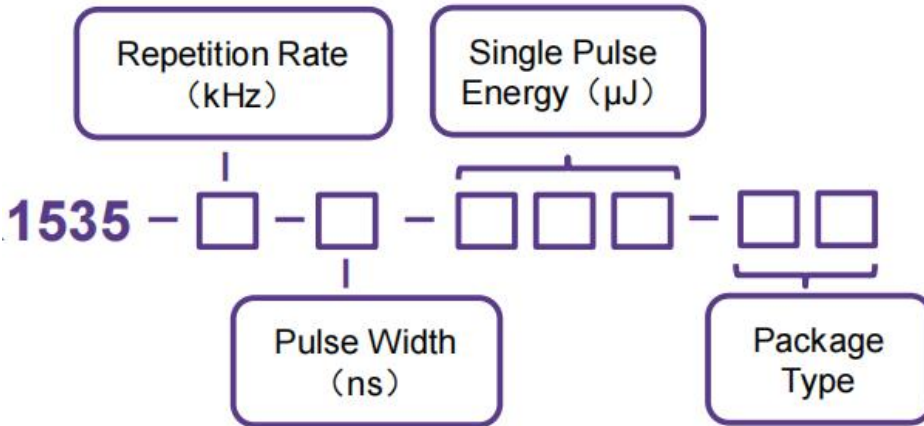
Typical Pulse



MECHANICAL DIMENSION(mm)



PART NUMBERING SCHEMA



PIN DESCRIPTIONS

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

