

1064nm YAG Laser-15mJ-5Hz



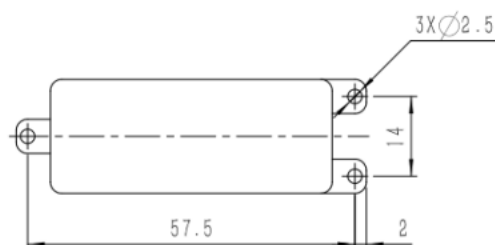
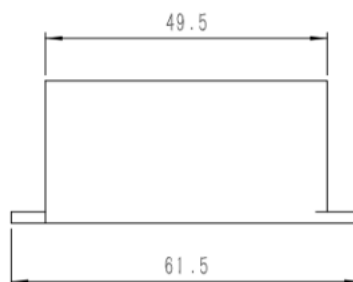
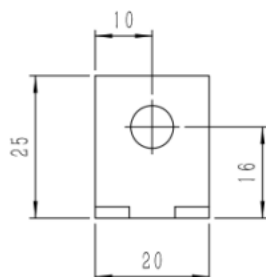
Introduction

It is a passively Q-switched Nd: YAG laser with 1064nm wavelength, $\geq 15\text{mJ}$ peak power, 1~5hz (adjustable) pulse repetition rate and $\leq 8\text{mrad}$ divergence angle. In addition, it is a small and light laser and able to achieve high energy output which can be ideal light source of ranging distance for some scenarios that have rigid requirements for volume and weight, such as individual combat and UAV applies in some scenarios.


Parameters

Wavelength	1064nm
Peak power	$\geq 15\text{mJ}$
Pulse Repetition Rate	1~5hz (adjustable)
Divergence angle	$\leq 8\text{mrad}$
Continuous operating time	$\geq 5\text{min}$
Operating Temperature	$-40^{\circ}\text{C} \sim 55^{\circ}\text{C}$
Storage Temperature	$-45^{\circ}\text{C} \sim 65^{\circ}\text{C}$
Vibration	It can be applied on vehicle/vessel-mounted situation
Dimension	$\leq 65\text{mm} \times 20\text{mm} \times 25\text{mm}$ (heat dissipation plate is not included)
Weight	$\leq 100\text{g}$ (heat dissipation plate is not included)
Drive voltage	$\leq 25\text{V}$
Drive current	$\leq 110\text{A}$
Pulse width of drive current	$\leq 240\mu\text{s}$
TEC	4.8V, 8.5A;
Heat-dissipating method	Heat dissipation plate is attached to the inner wall

Dimension



Interface

NO.	Pin. 	Definition	Note.
1	LD+	LD power+, yellow	
2	LD-	LD power -, gray	
3	TEC+	TEC power+, red	
4	TEC-	TEC power -, black	
5	T1	Thermistor1, blue	Thermistor Type#: MFB103-3380(1%)
6	T2	Thermistor2, blue	