

## 1570nm OPO Laser-10mJ-20Hz

### Overview



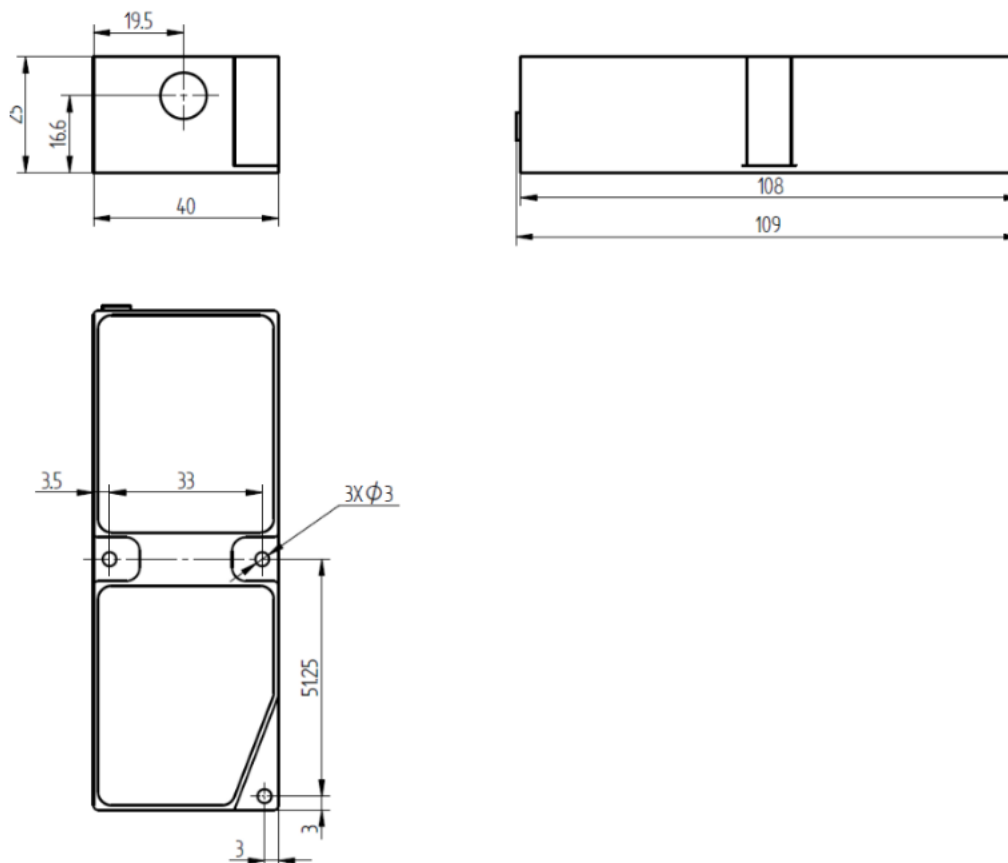
### Introduction

It is an eye-safe and passively Q-switched OPO laser with 1570nm wavelength, 1~20hz (adjustable) pulse repetition rate and  $\leq 10\text{mrad}$  divergence angle. In addition, it is a small and light laser which can be ideal light source of long-distance ranging in high frequency( 20Hz ).

### Parameters

Wavelength	1570nm
Peak power	$\geq 10\text{mJ}$
Pulse Repetition Rate	1~20hz (adjustable)
Divergence angle	$\leq 10\text{mrad}$
Continuous operating time	$\geq 5\text{min}$ (under 10Hz, it can operate continuously for 30mins)
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	$\leq 110\text{mm} \times 40\text{mm} \times 25\text{mm}$ (heat dissipation plate is not included)
Weight	$\leq 230\text{g}$ (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	12V, 6A;
Heat-dissipating method	Air-cooling (under 20hz)

## 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	