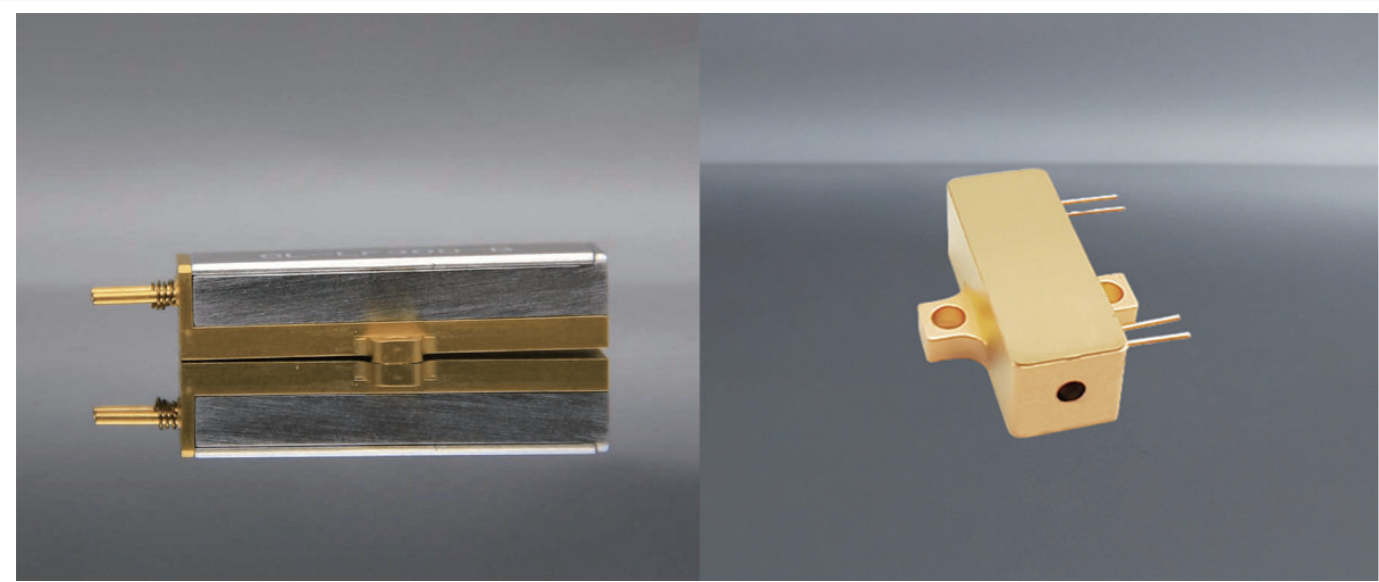


# 1535nm Eye Safe Laser

## LOW / HIGH ENERGY 1535 LASER MODULE PRODUCT MODEL



Model	CL-LF100-B	CL-LF200-B	CL-LF300-B	CL-LF400-B	CL-LF100-B-PIN*	CL-LF200-B-PIN*	CL-LF300-B-PIN*	CL-LF500-B	CL-LF800-B	CL-LF1000-B
Wavelength	1535nm	1535nm	1535nm	1535nm	1535nm	1535nm	1535nm	1535nm	1535nm	1535nm
Output Energy	100μJ	200μJ	300μJ	400μJ	100μJ	200μJ	300μJ	500μJ	800μJ	1000μJ
Pulse Width	5ns	5ns	5ns	6ns	5ns	5ns	5ns	6ns	8ns	8ns
Repetition Rate	10Hz	10Hz	10Hz	10Hz	10Hz	10Hz	10Hz	10Hz	10Hz	5Hz
Divergence Angle	10mrad	10mrad	8mrad	8mrad	10mrad	10mrad	8mrad	8mrad	7mrad	7mrad
Beam mode	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>
Working Current	8A	10A	12A	15A	8A	10A	12A	20A	30A	30A
Weight	10g	10g	10g	10g	10g	10g	10g	13g	20g	20g
Size	21x8x7mm <sup>3</sup>	21x8x7mm <sup>3</sup>	25x8x7mm <sup>3</sup>	28x8x7mm <sup>3</sup>	25x8x7mm <sup>3</sup>	25x8x7mm <sup>3</sup>	25x8x7mm <sup>3</sup>	32x8x7mm <sup>3</sup>	40x9x7.7mm <sup>3</sup>	40x9x7.7mm <sup>3</sup>
Working Temperature Range °C	-40°C~+65°C	-40°C~+65°C	-40°C~+65°C	-40°C~+65°C	-40°C~+65°C	-40°C~+65°C	-40°C~+65°C	-40°C~+65°C	-40°C~+65°C	-40°C~+65°C
Storage Temperature Range °C	-55°C~+80°C	-55°C~+80°C	-55°C~+80°C	-55°C~+80°C	-55°C~+80°C	-55°C~+80°C	-55°C~+80°C	-55°C~+80°C	-55°C~+80°C	-55°C~+80°C

Note: \*This model has a built-in PIN, and the PIN amplitude is 2-3V@50Ω impedance

## DESCRIPTION

1535 nm laser is one of the series of solid state laser provided by Crylink. It is based on the bonding crystal of Er: glass and Co: Spinel. It's a good erbium laser. Due to our mature bonding and packaging technology, our 1535 nm laser also can be called as 1535 nm microchip laser.

The most important advantage of our 1535 nm laser is its safety to users' eyes. Because there is higher access of human eyes to 1535 nm laser than other lasers (like 1064 nm Nd:YAG laser). Besides, our 1535 nm laser can provide large pulsed laser energy up to 400 uJ. And lighter weight and smaller size are its other brightened spots.

Our 1535 nm laser has wide applications in infra red scope. It can be used as light source in lightweight lidar sensor, as well as in laser range finder.

## FEATURES

- The laser pulse width can reach 5ns
- Maximum PRF to 1kHz
- Pulse energy up to 400μJ

## APPLICATIONS

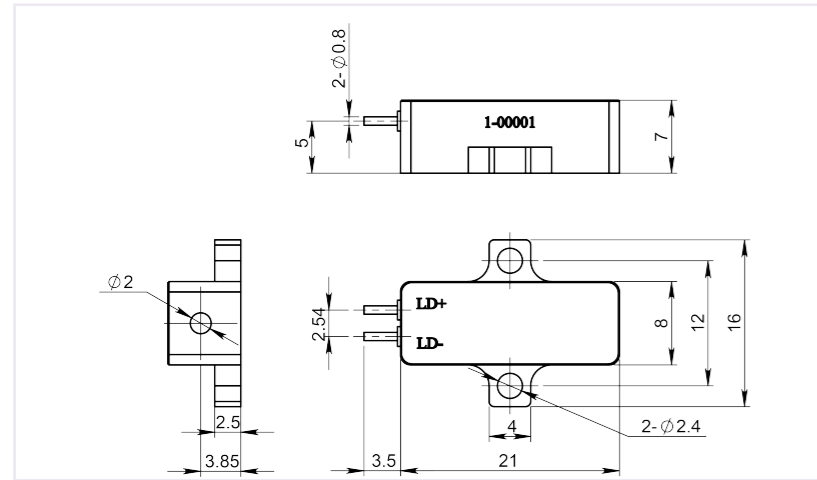
- Laser Ranging
- Lidar

## HIGH REPETITION 1535 LASER MODULE PRODUCT MODEL

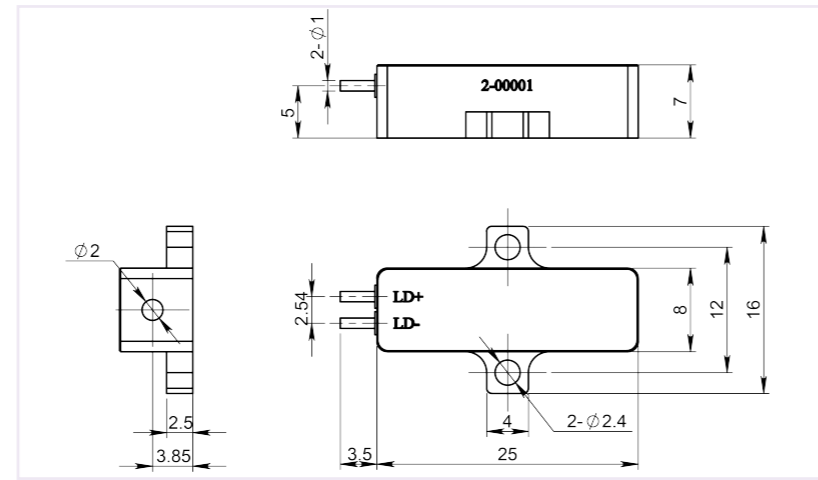
Model	CL-HF50-B	CL-HF20-B	CL-HF10-B	CL-HF50-B-PIN*	CL-HF20-B-PIN*	CL-HF10-B-PIN*
Wavelength	1535nm	1535nm	1535nm	1535nm	1535nm	1535nm
Output Energy	50μJ	20μJ	10μJ	50μJ	20μJ	10μJ
Pulse Width	5ns	6ns	8ns	5ns	6ns	8ns
Repetition Rate	1KHz	2.5KHz	5KHz	1KHz	2.5KHz	5KHz
Divergence Angle	16mrad	17mrad	18mrad	16mrad	17mrad	18mrad
Working Voltage	2V	2V	2V	-	-	-
Spot Diameter	0.3mm	0.3mm	0.3mm	-	-	-
Directivity	<0.2°	<0.2°	<0.2°	-	-	-
Beam Mode	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>
Working Current	5A	5A	5A	5A	5A	5A
Weight	8g	8g	8g	12g	12g	12g
Size	21x8x7mm <sup>3</sup>	21x8x7mm <sup>3</sup>	21x8x7mm <sup>3</sup>	25x8x7mm <sup>3</sup>	25x8x7mm <sup>3</sup>	25x8x7mm <sup>3</sup>
Working Temperature Range °C	-40°C~+65°C	-40°C~+65°C	-40°C~+65°C	-40°C~+65°C	-40°C~+65°C	-40°C~+65°C
Storage Temperature Range °C	-55°C~+80°C	-55°C~+80°C	-55°C~+80°C	-55°C~+80°C	-55°C~+80°C	-55°C~+80°C

Note: \*This model has a built-in PIN, and the PIN amplitude is 2V@50Ω impedance

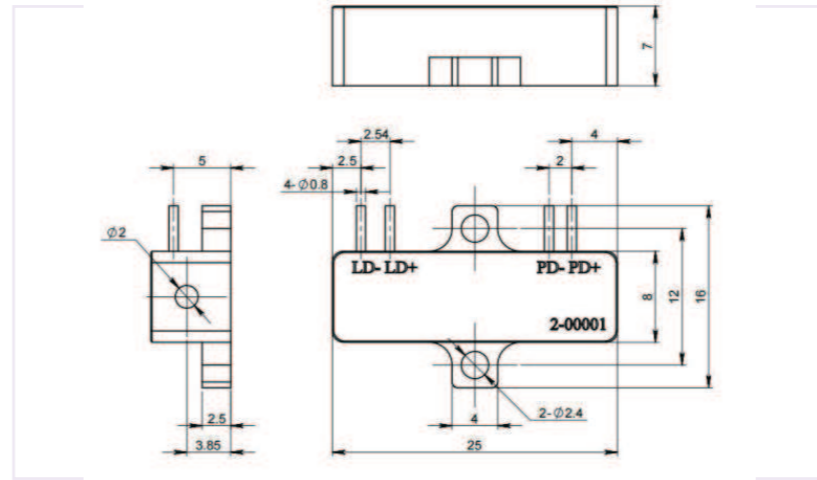
# OUTLINE SIZE (mm)



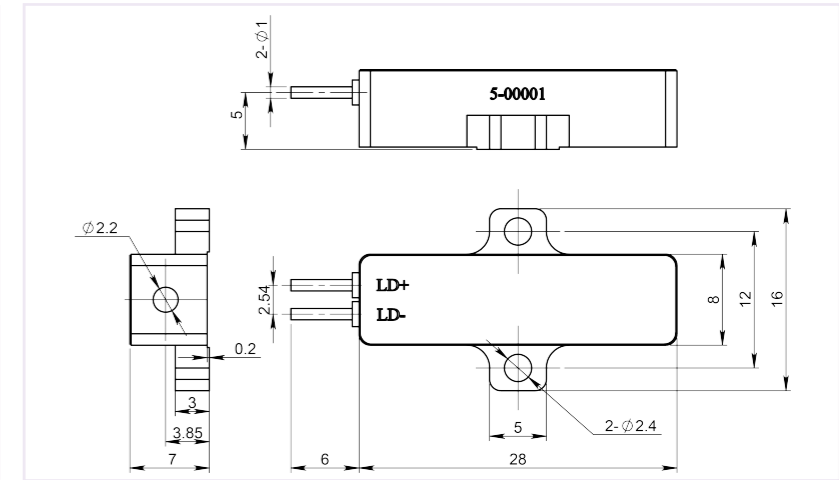
CL-LF100-B, CL-LF200-B



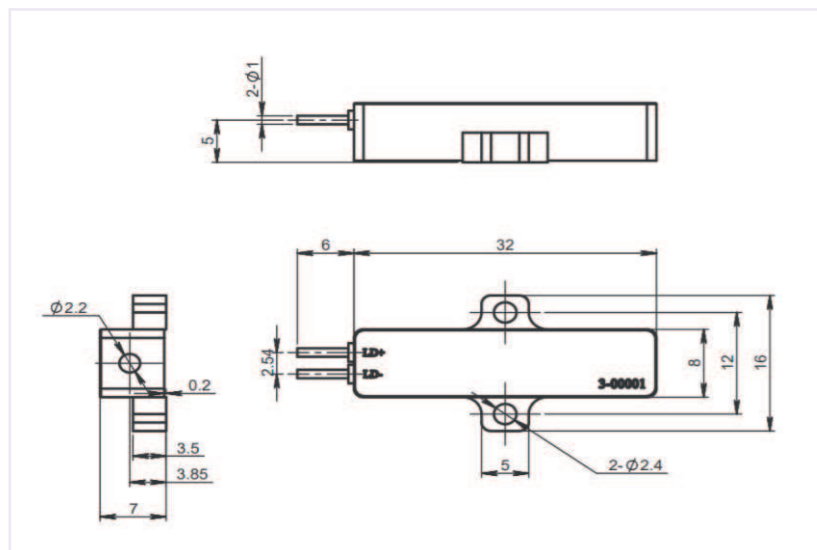
CL-LF300-B



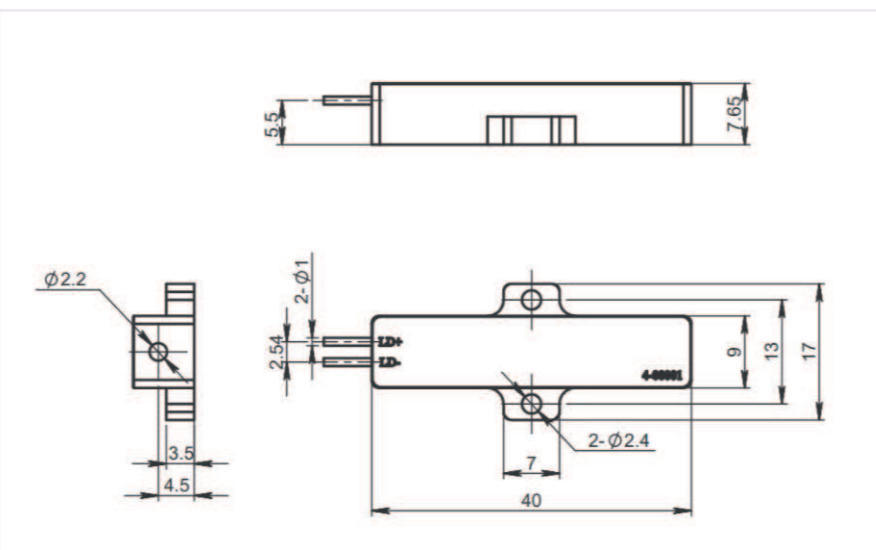
CL-LF100-B-PIN, CL-LF200-B-PIN  
CL-LF300-B-PIN



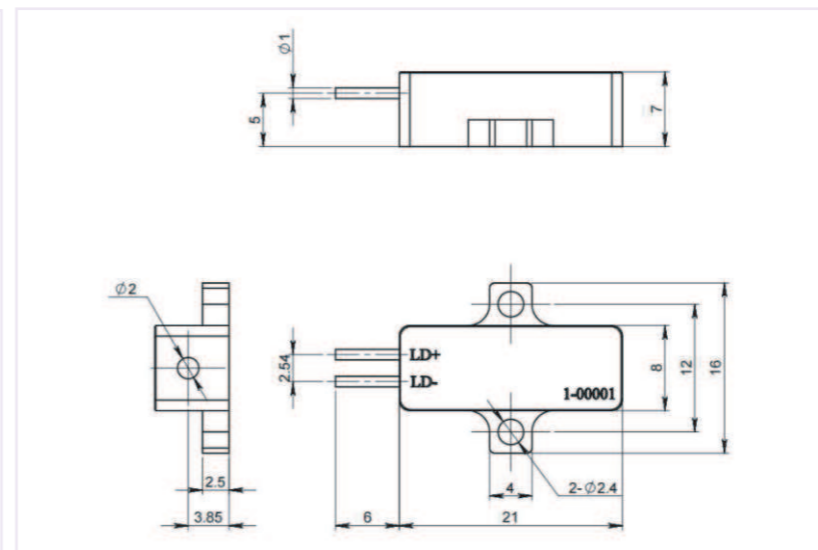
CL-LF400-B



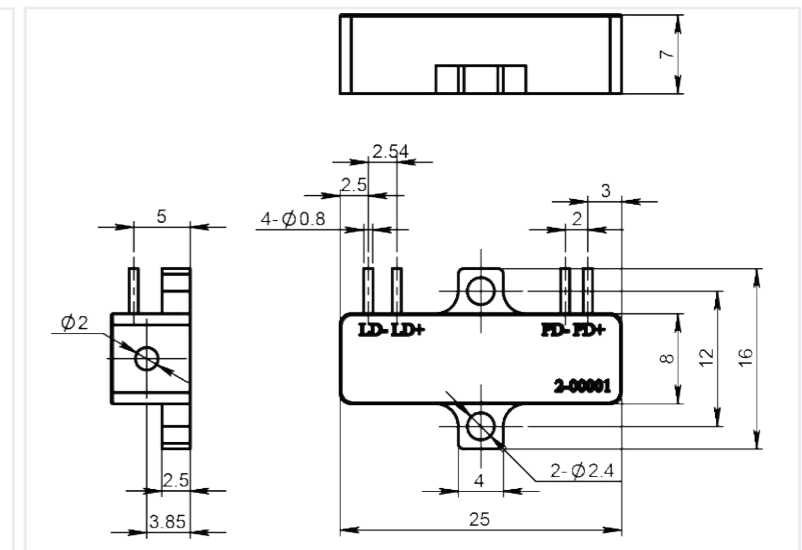
CL-LF500-B



CL-LF800-B, CL-LF1000-B



CL-HF50-B, CL-HF20-B,  
CL-HF10-B



CL-HF50-B-PIN, CL-HF20-B-PIN,  
CL-HF10-B-PIN

