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<http://dtscanner.cn/en/homeen>

DragonTiger Product manual

Catalogue

1.DT Galvo

1.1---DT40

1.2---DT50

1.3---DT50W

1.4---DT50B

1.5---DT50BB

1.6---DT30Plus

1.7---DT30Plus+

2.DT Galvo driver

2.1---Dual channel driver board

2.2---Single channel driver board

3.Laser driver

3.1---5W-10W_RGB Laser driver

3.2---12W-20W_RGB Laser driver

3.3---22W-30W_RGB Laser driver

4.Other parts

4.1---100M switch

4.2---1000M switch

DT Galvo series

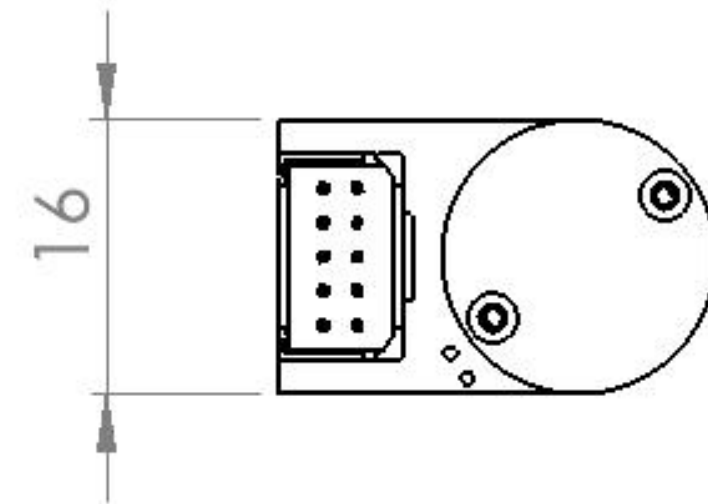
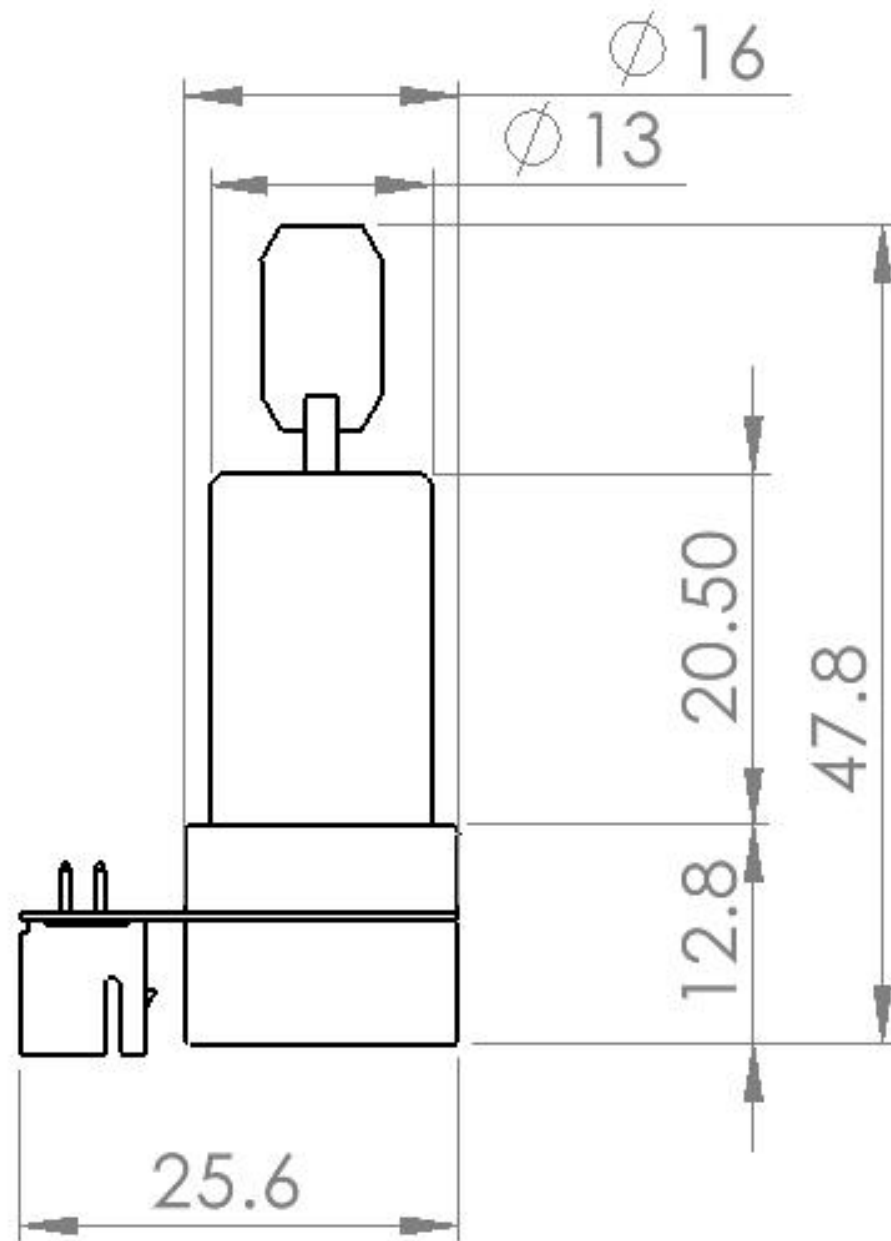
Profile :

1. Since its launch in 2005, DragonTiger Scanners has been continuously upgrading and optimizing its products, with mature technology and stable quality.
2. Starting from 2023, all galvo will have built-in temperature sensors (patented in China, the United States, and Germany).

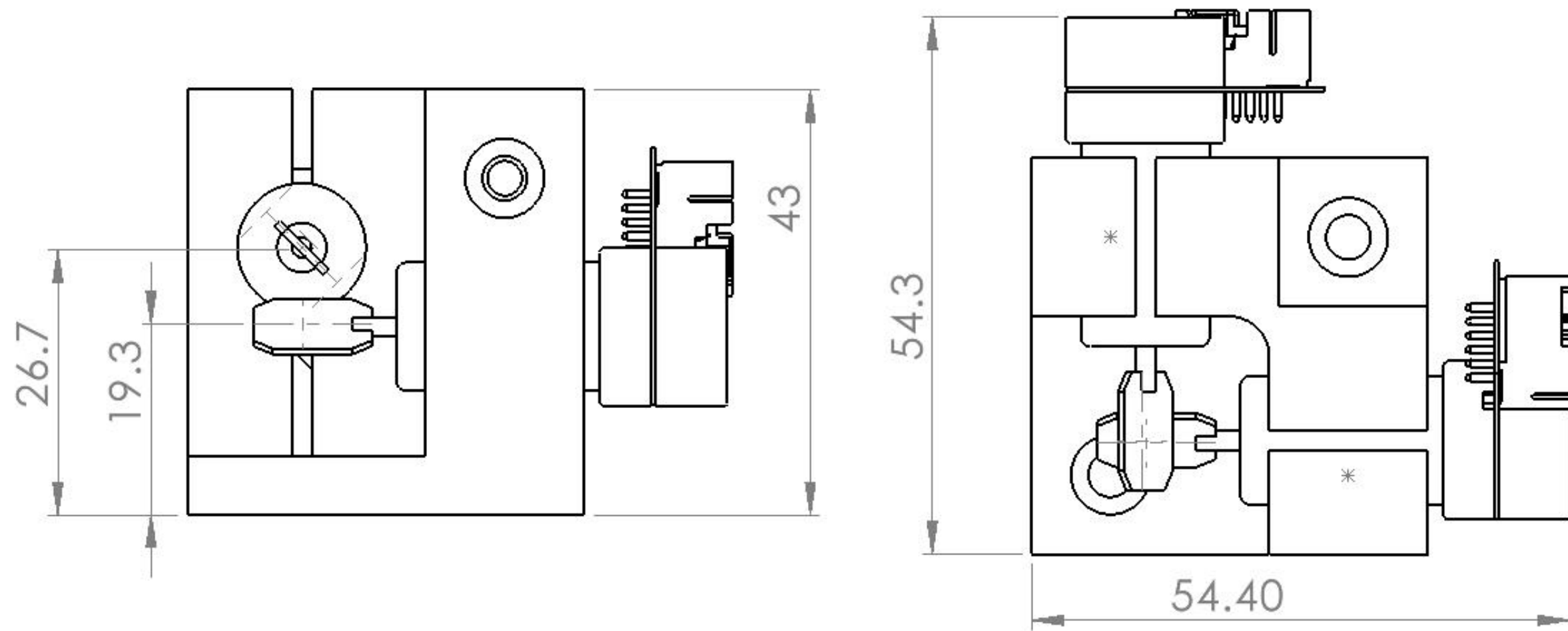
Product Specifications	DT40	DT50	DT50W	DT50B	DT50BB	DT30Plus	DT30Plus+
Beam (mm)	3-4	5-5.5	5	6-7	7-8	8-10	10-12
*Mirror Wavelength (nm)	standard configuration 400-700nm, High reflectivity dielectric film, reflectivity>98%						
Mirror Size(mm)	12*7*0.8 X/Y	X 10.5*8.5*1 Y 13*8*1	X 10.5*8.5*1 Y 17*7*1	X 10.5*10.5*1 Y 16*9*1	X 14*12*1 Y 20*10*1	X 15*14*1.3 Y 23*12*1.3	X 16*18*1.3 Y 25*16*1.3
Max Scan Angle(°)	60	60	85	60	60	50	40
Max Temperature of Rotor(°C)	110						
Max Speed pps (ILDA@8 °)	40K	40K	38K	35K	28K	25K	20K
Incident	19.3	19.4	19.4	19.4	19.4	19.3	19.5
Out of Height(mm)	26.7	27.4	27.4	28.9	30.1	32.6	36.1
Galvo Weight (g)	30	23	23	23	23	42	43
XY Assemble Weight(g)	152	239	239	239	254	283	306
Power Requirement	±24V 1A	±24V 2.5-3A					
Max Power Consumption(W)							

*Customizable for other wavelengths and coated ,1064nm,980nm....,Gold coated,Silver coated,Aluminum coated...

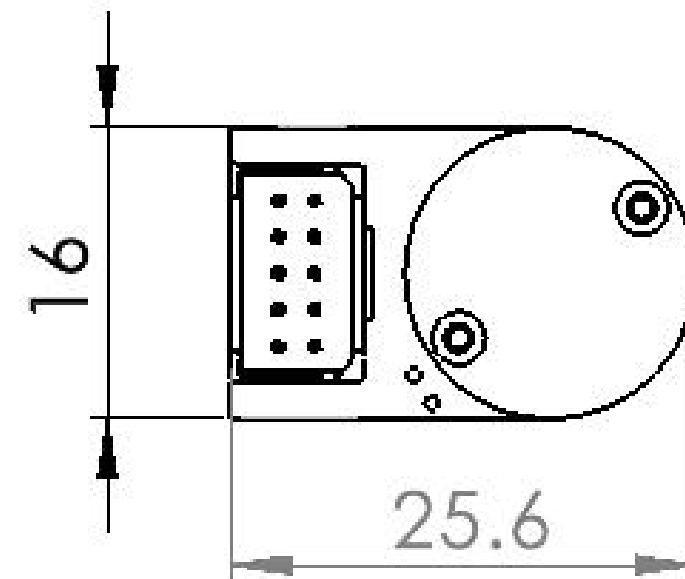
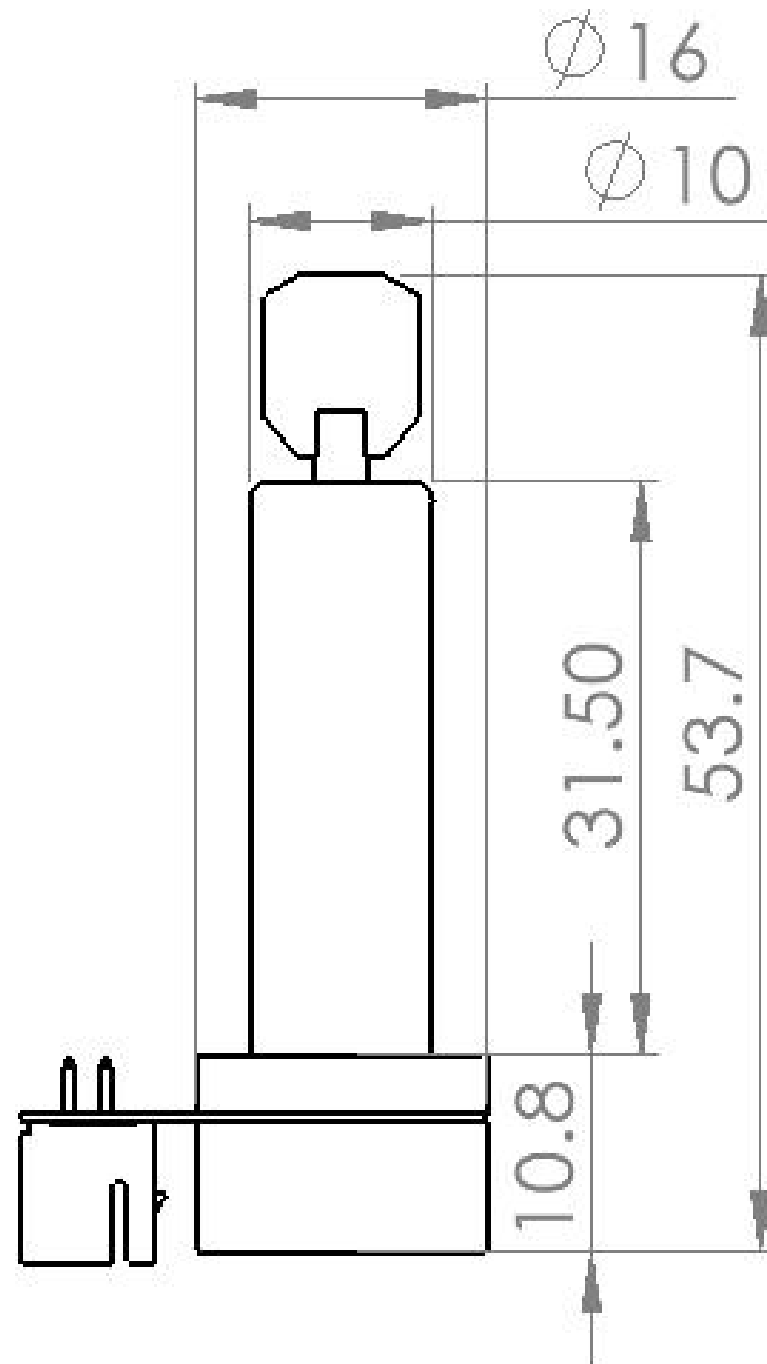
DT40_X/Y galvo



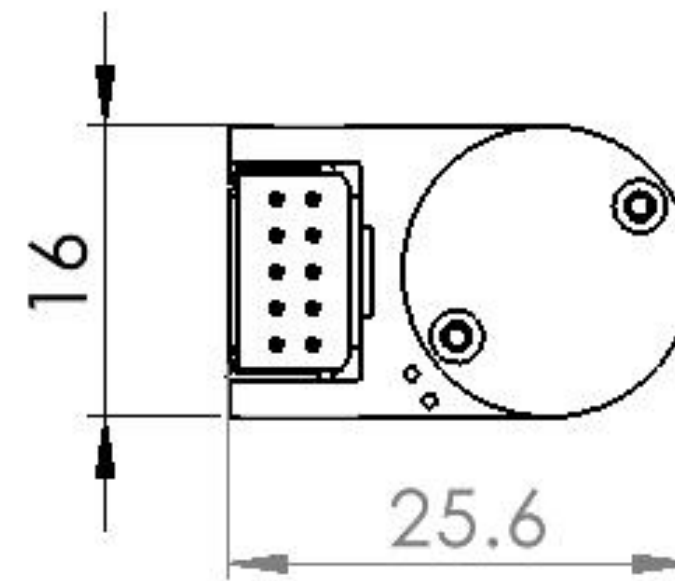
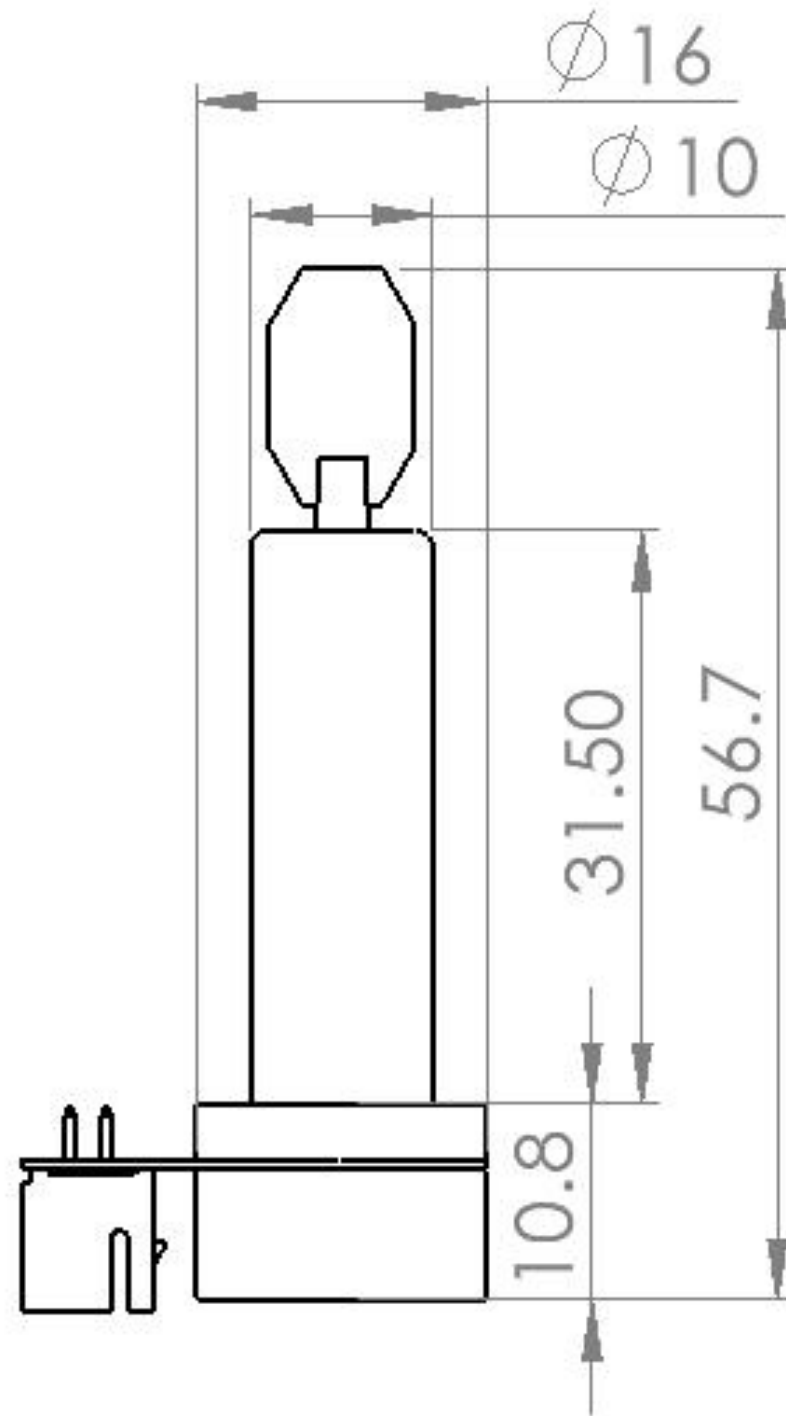
DT40 assemble



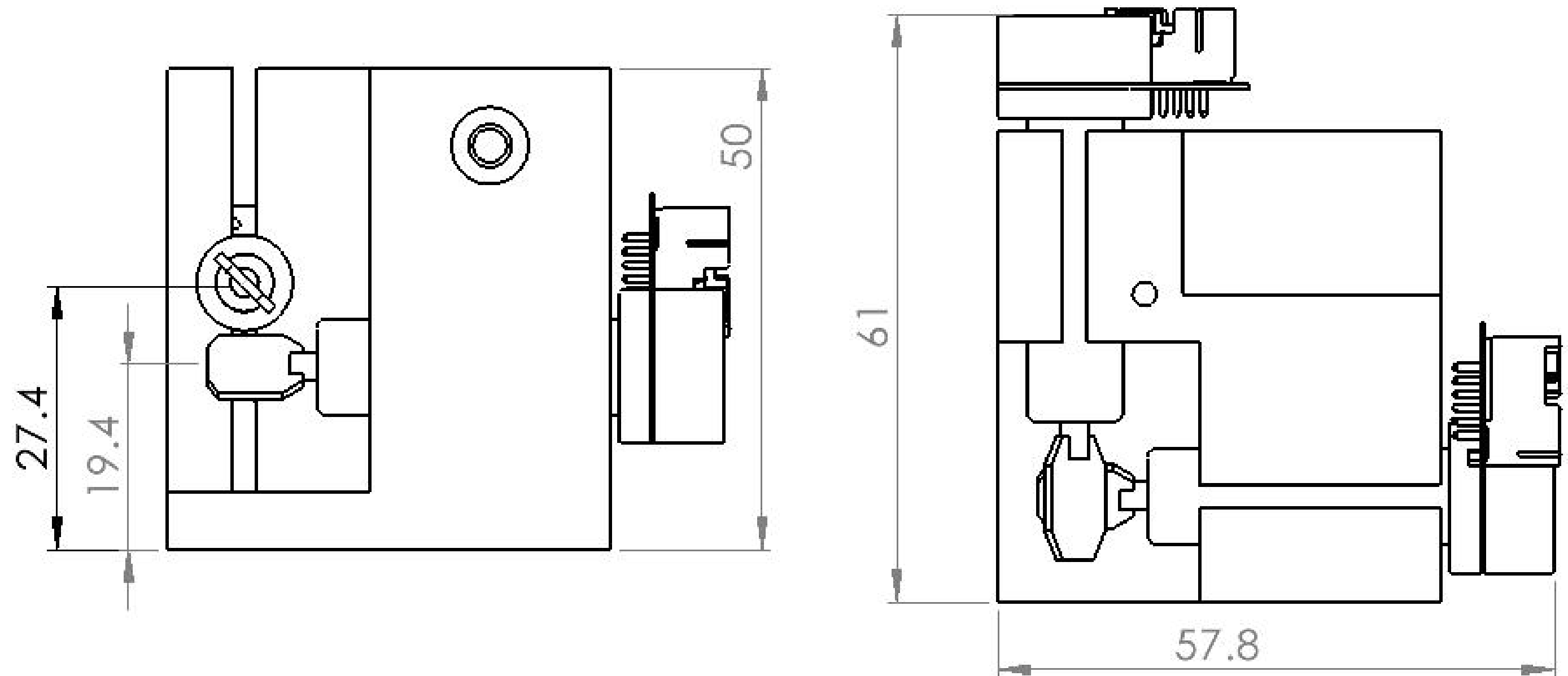
DT50_X_galvo



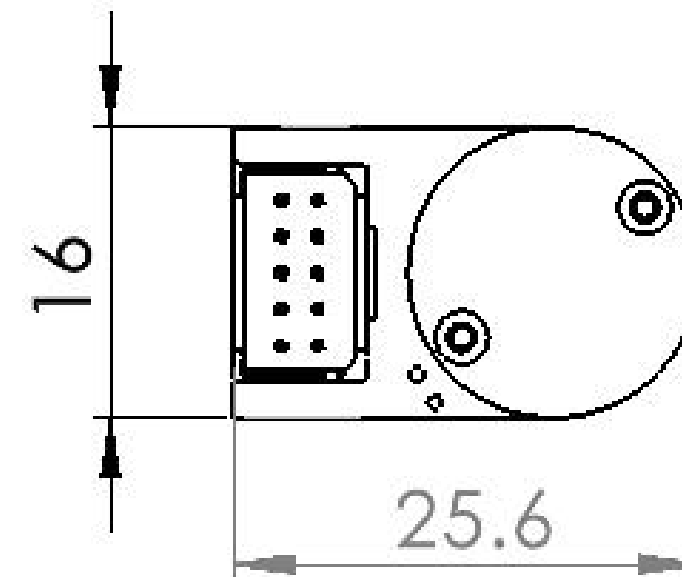
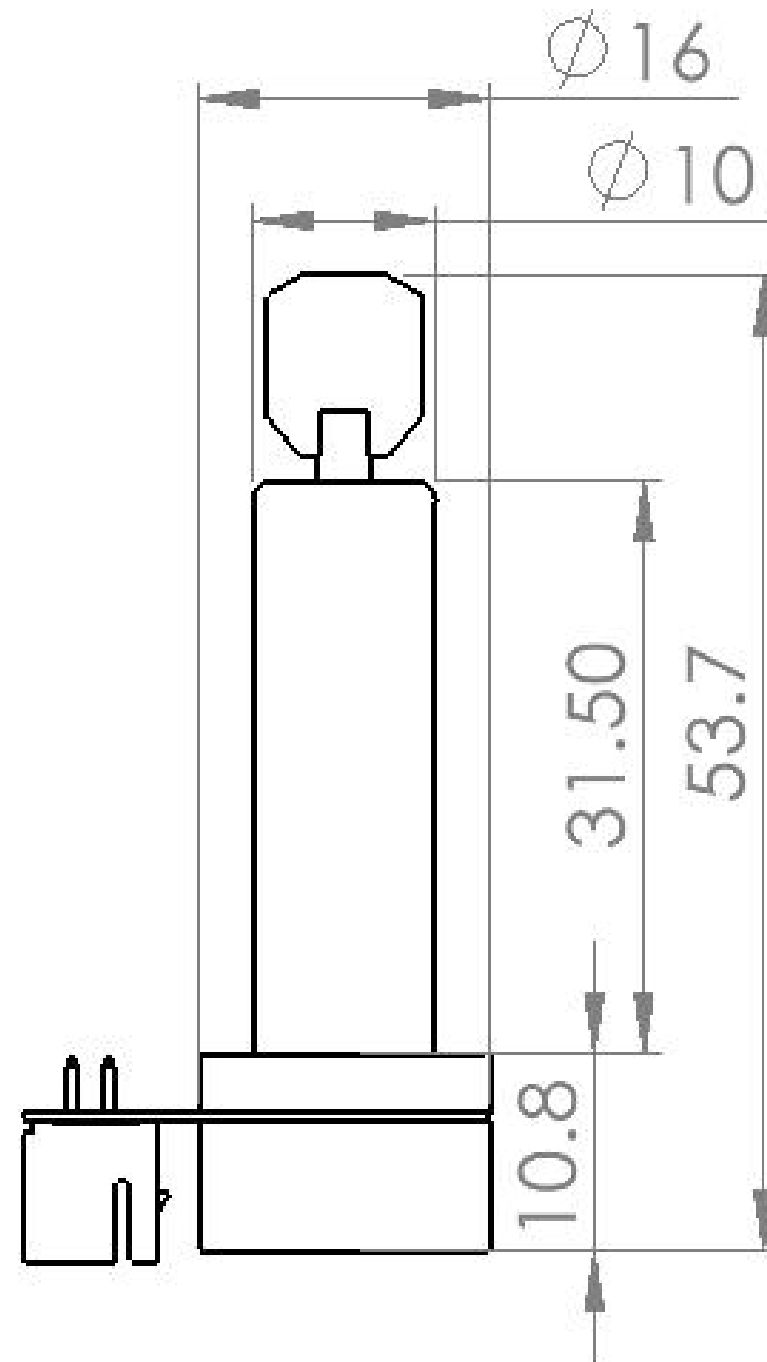
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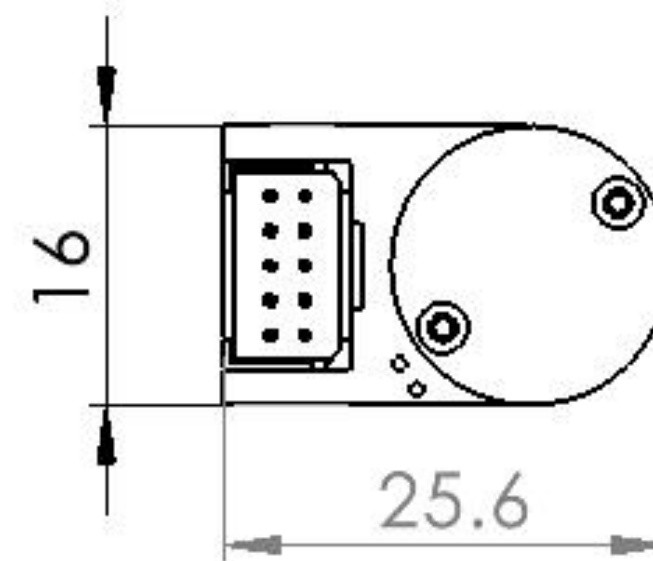
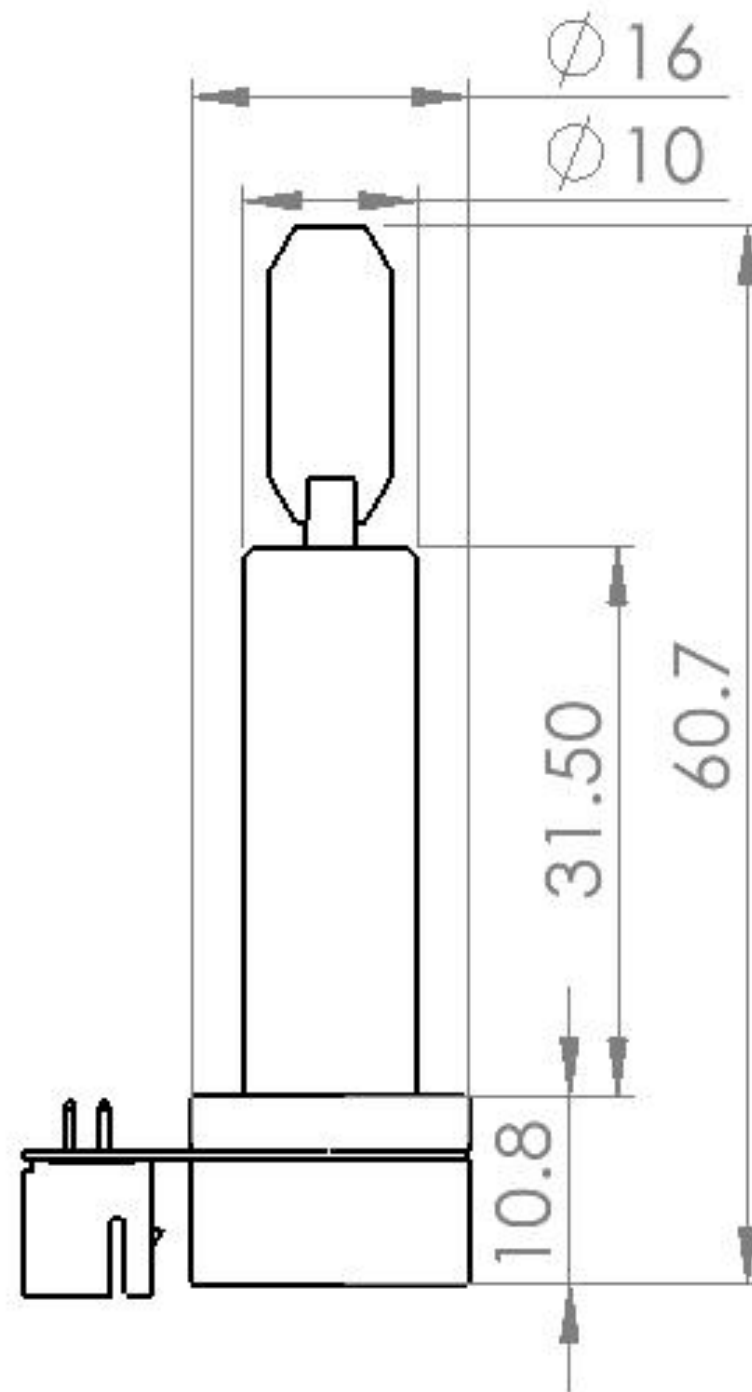
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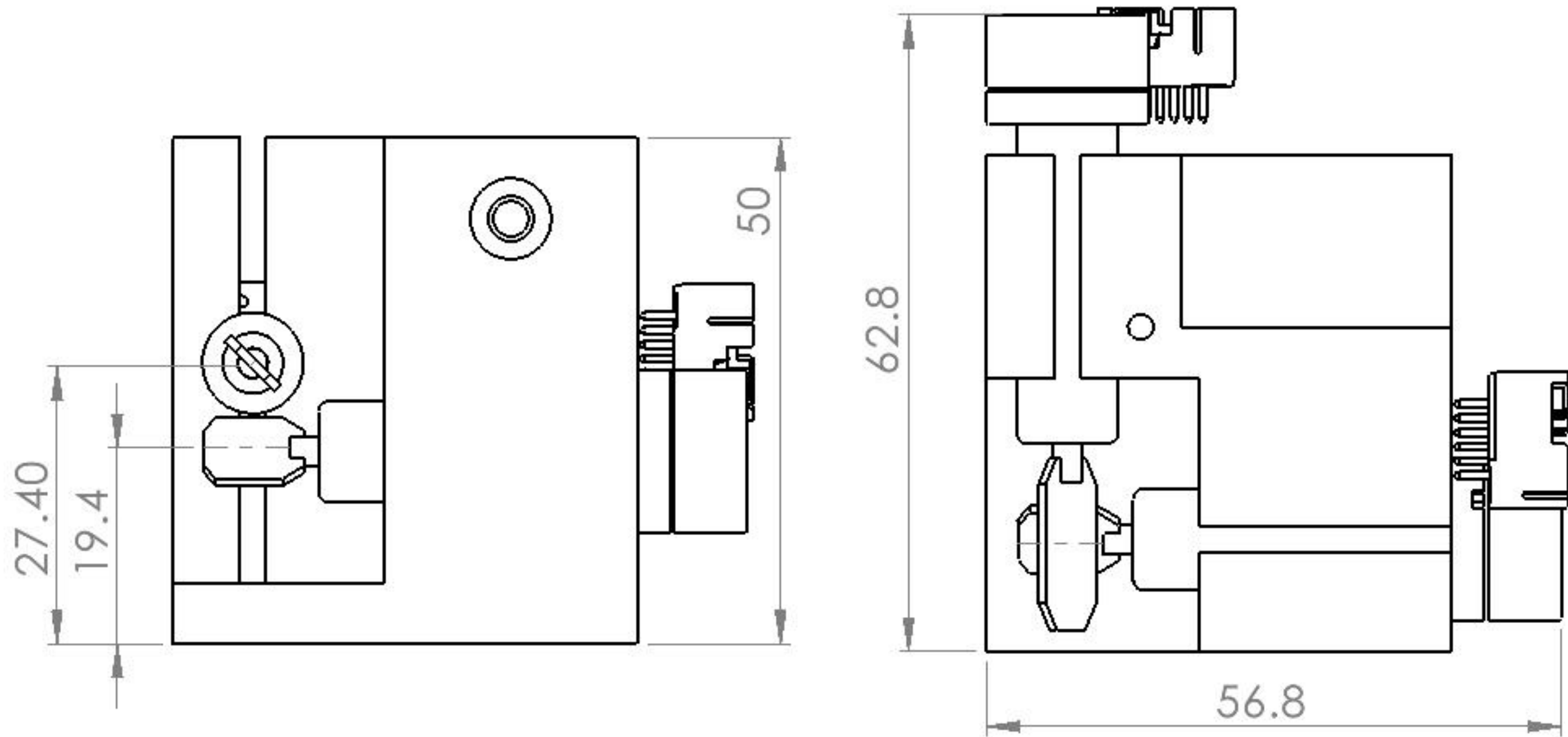
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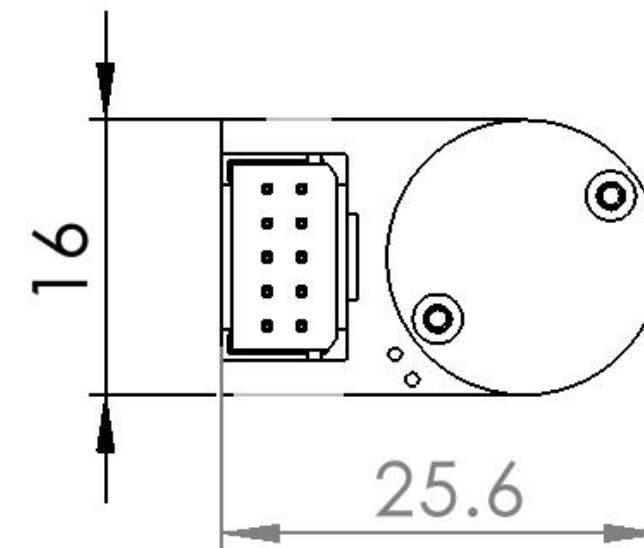
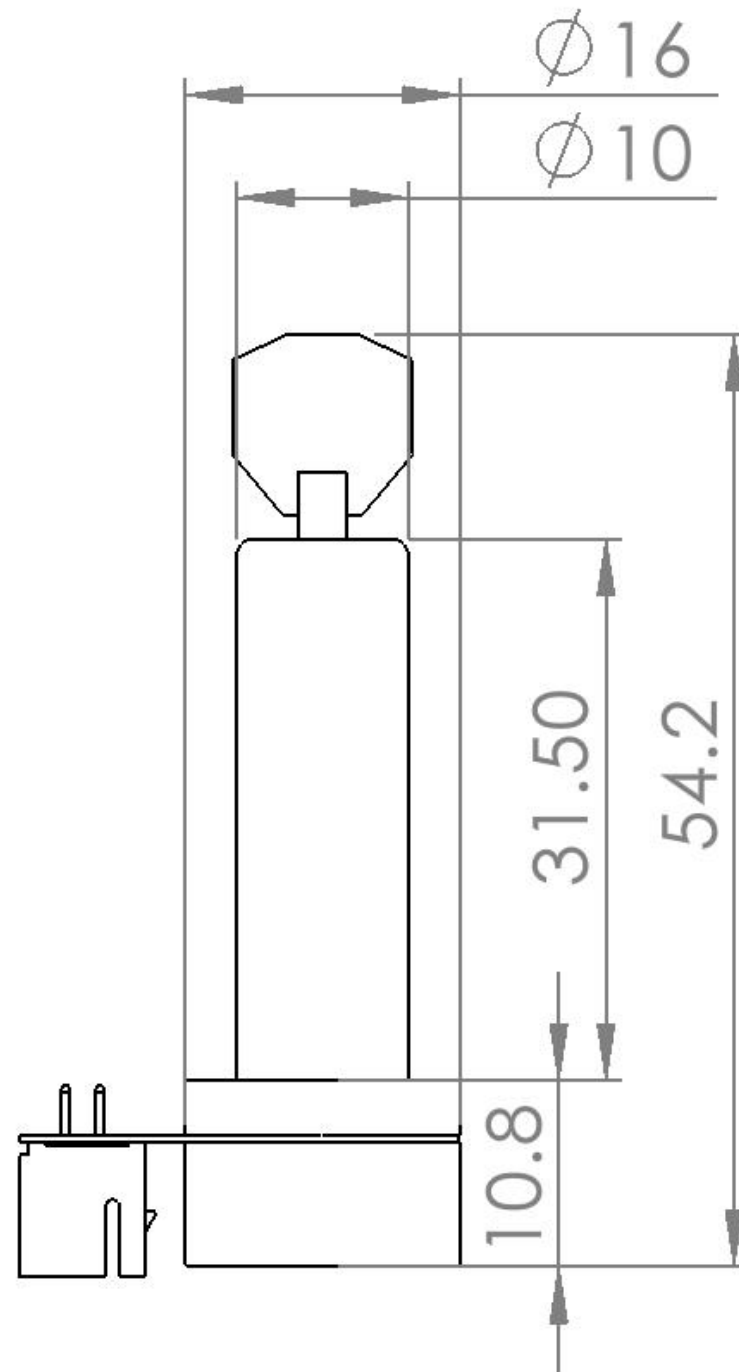
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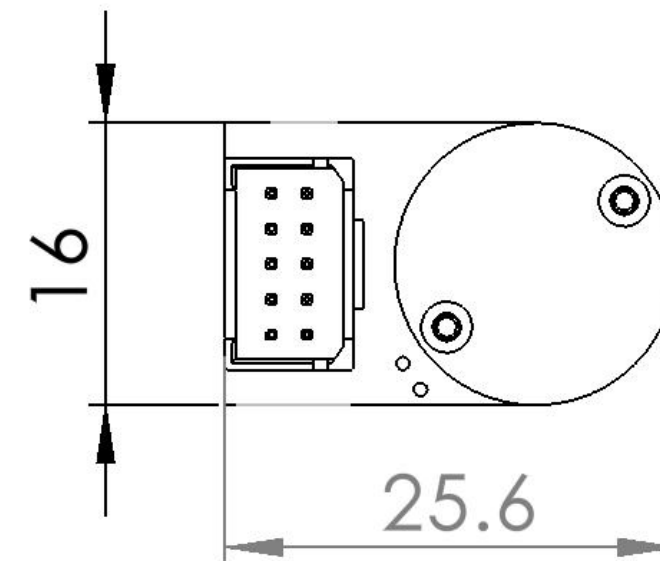
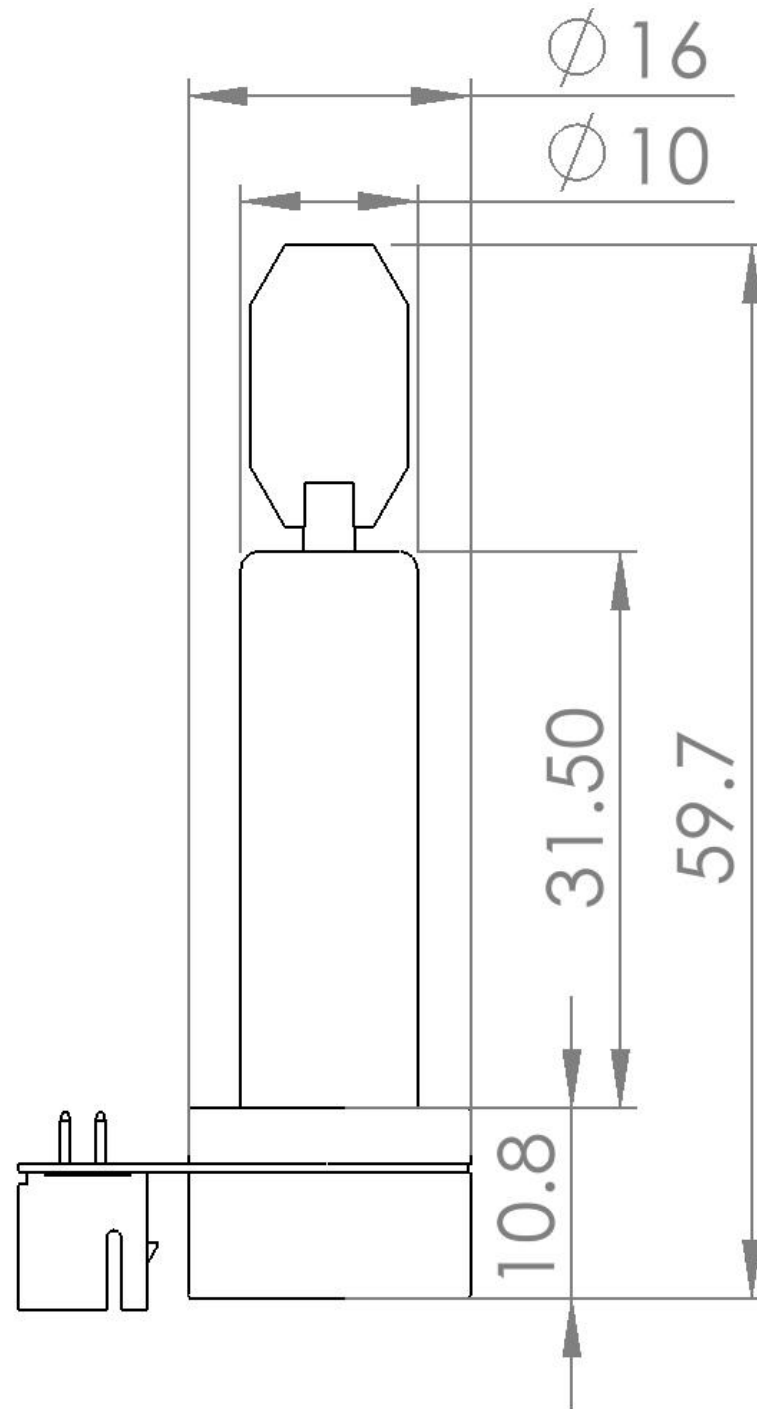
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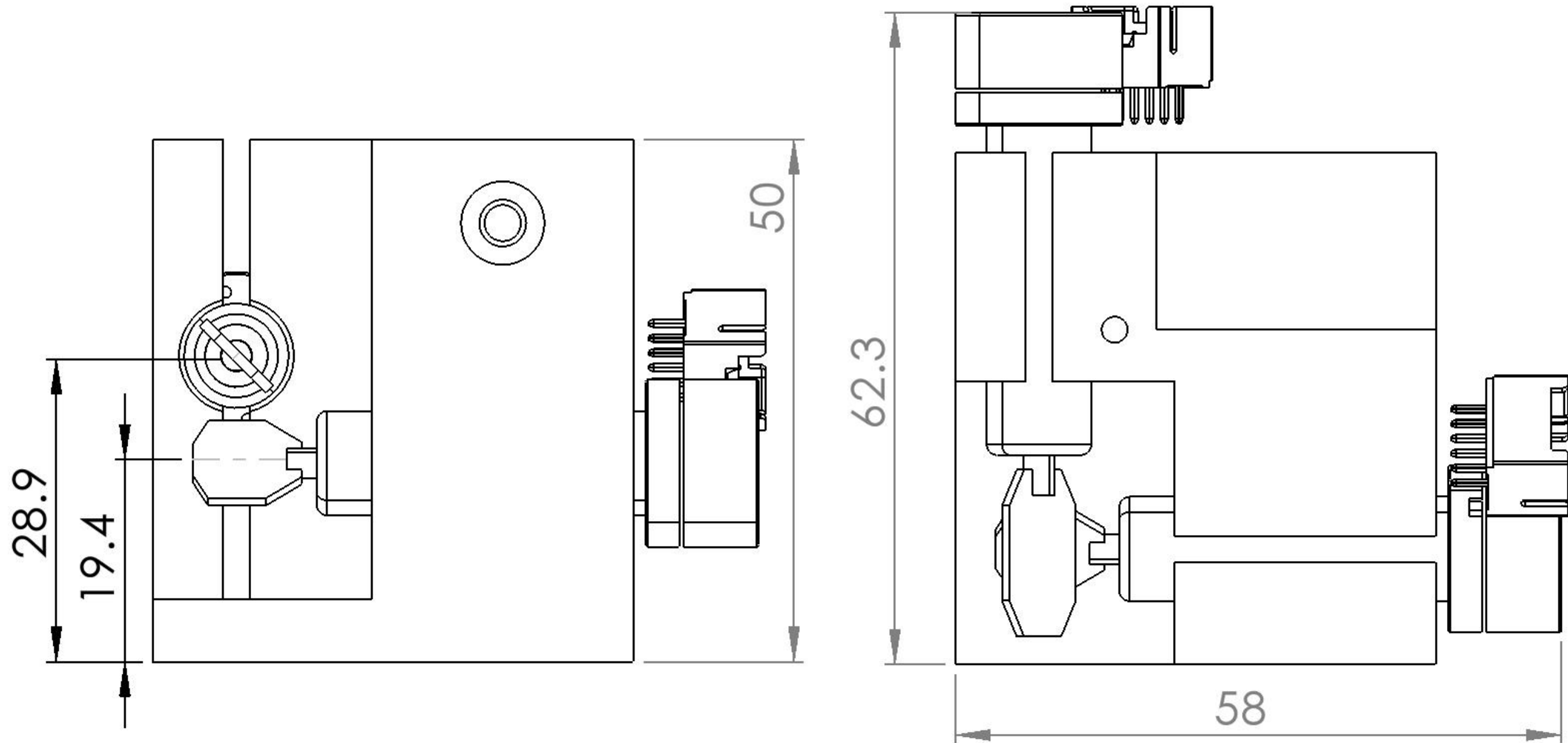
DT50B_X_galvo



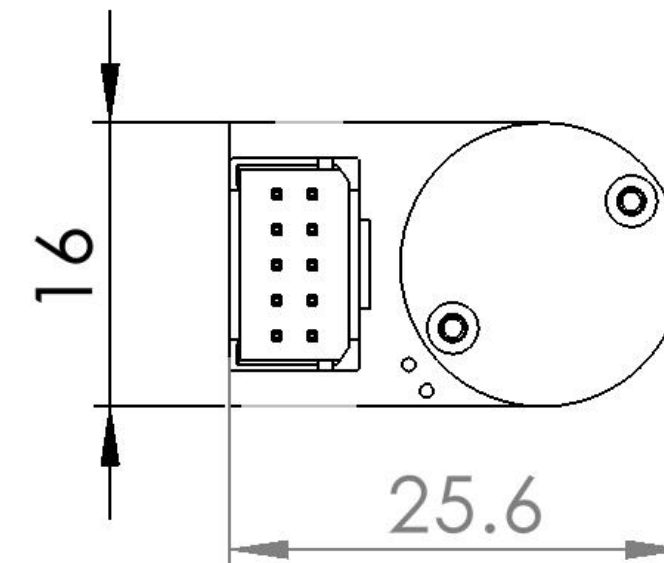
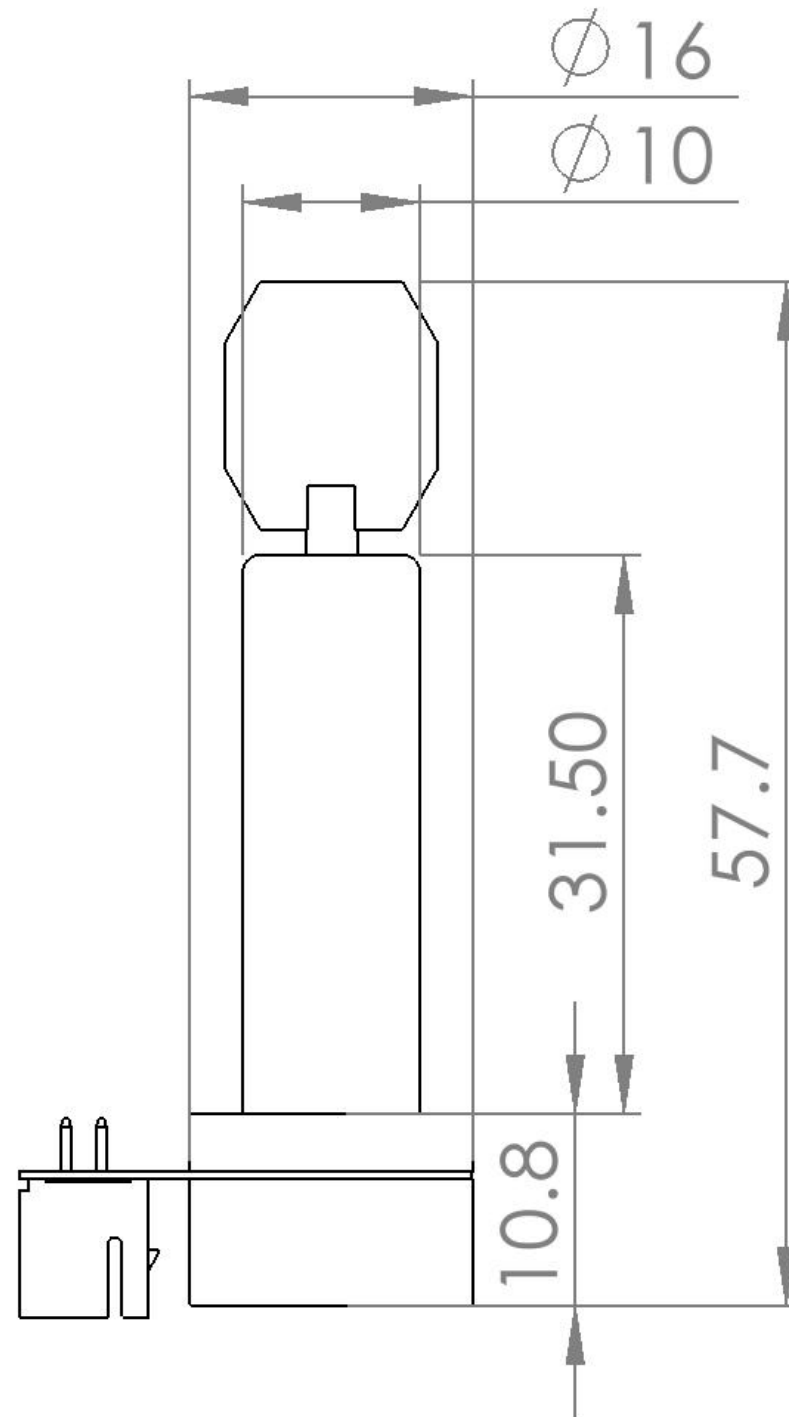
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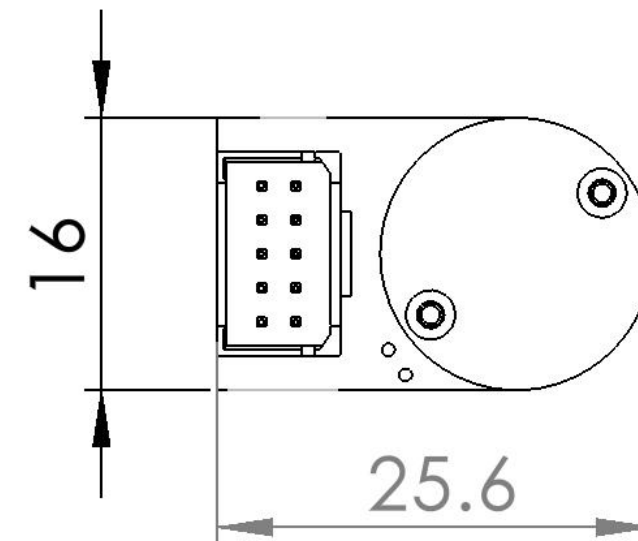
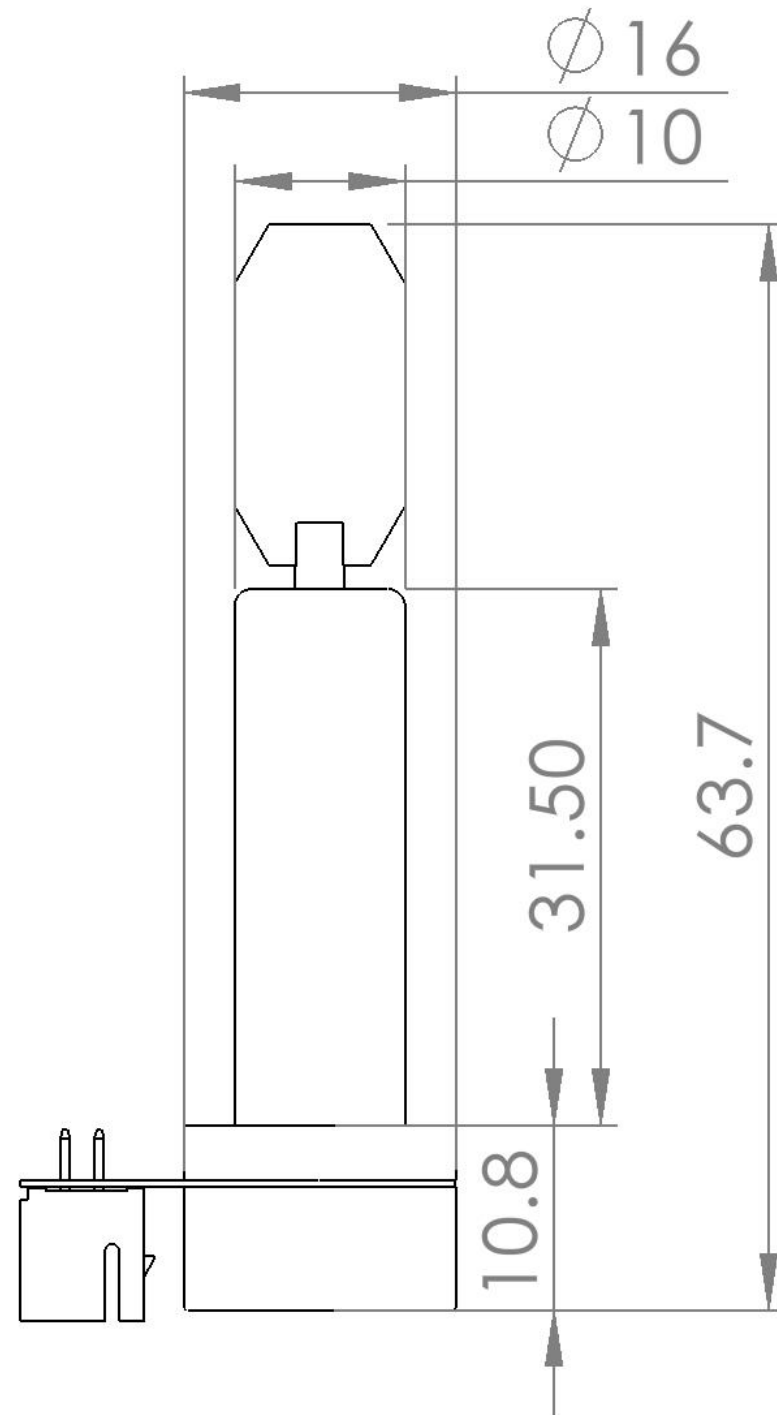
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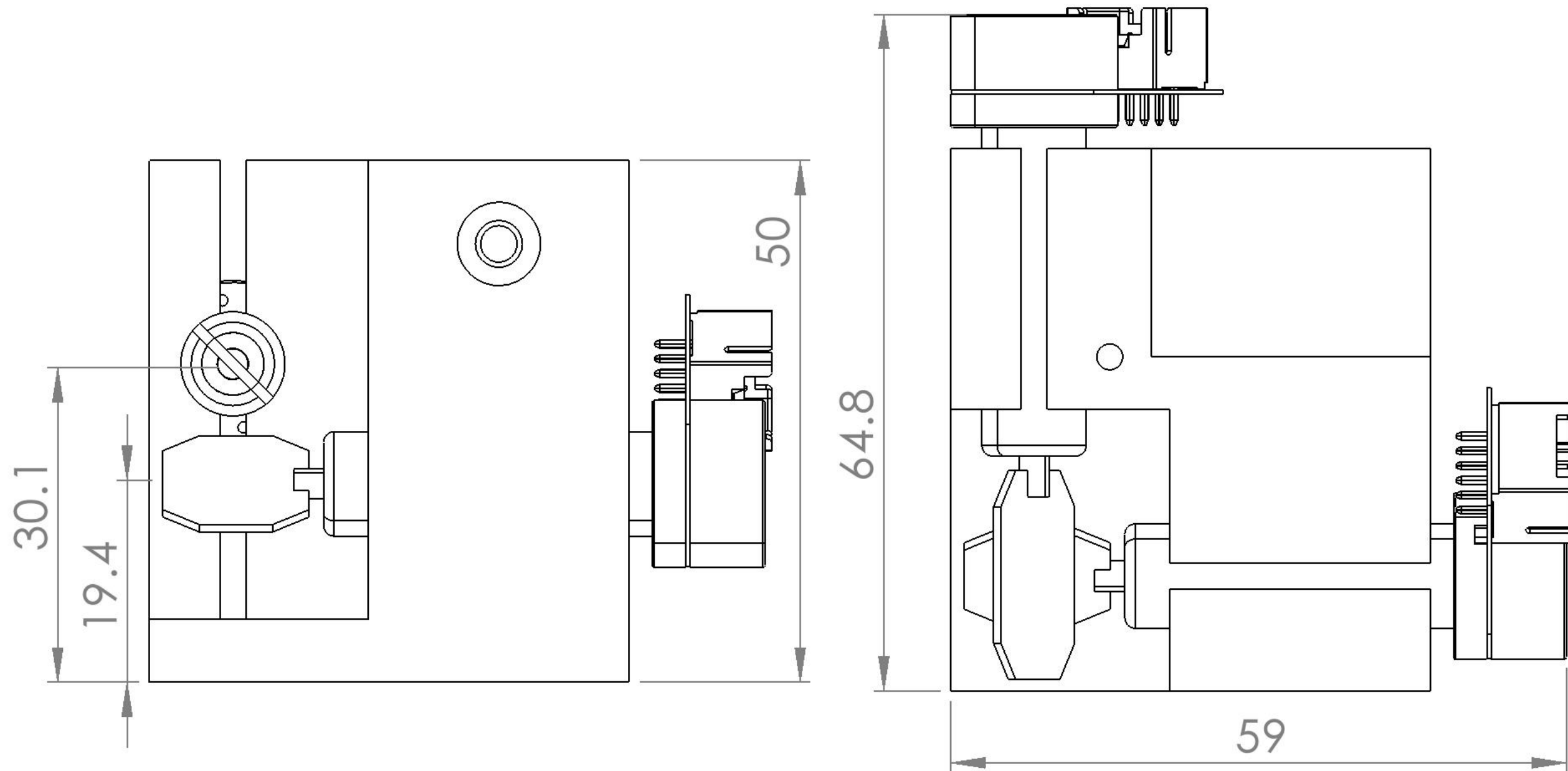
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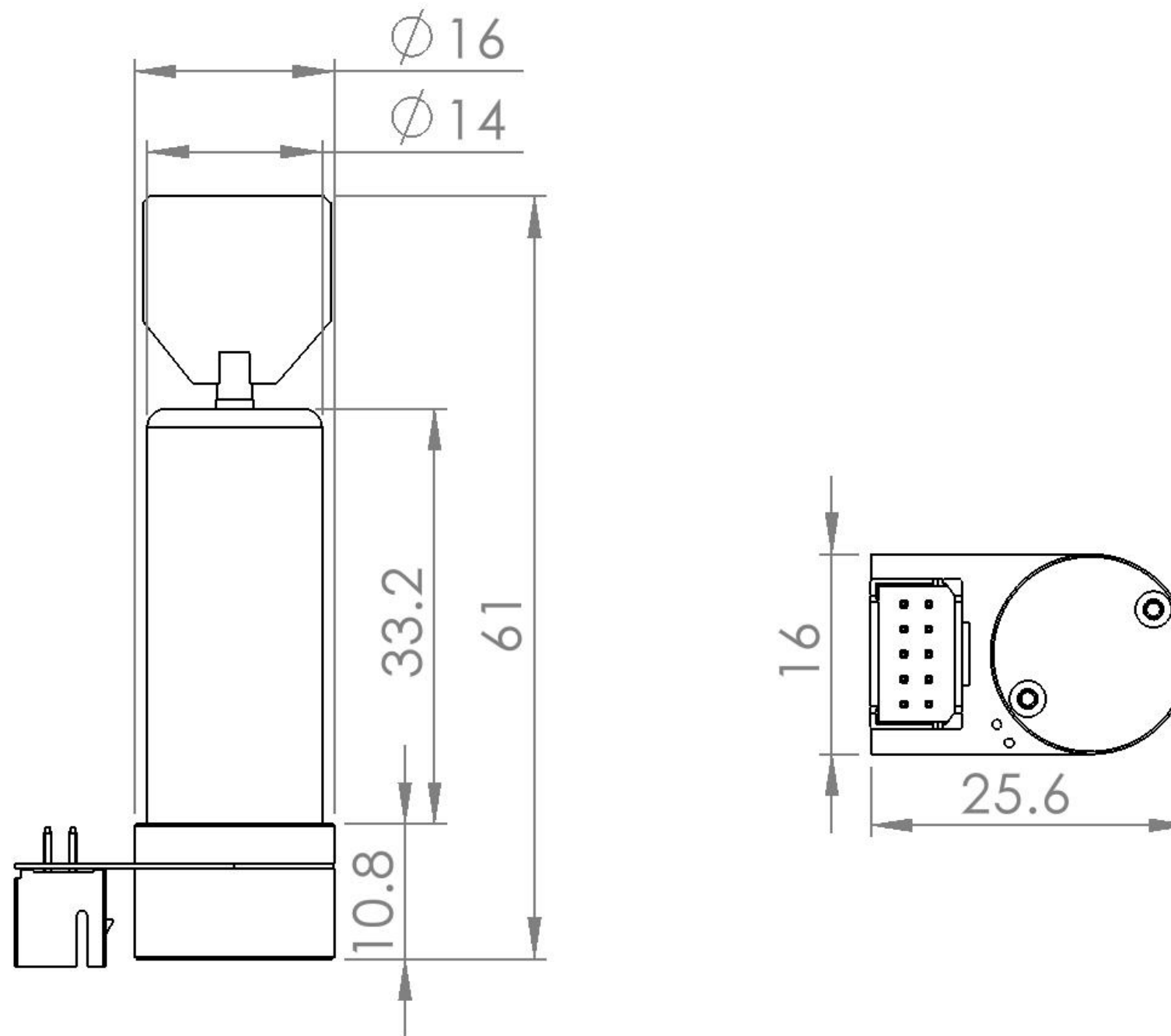
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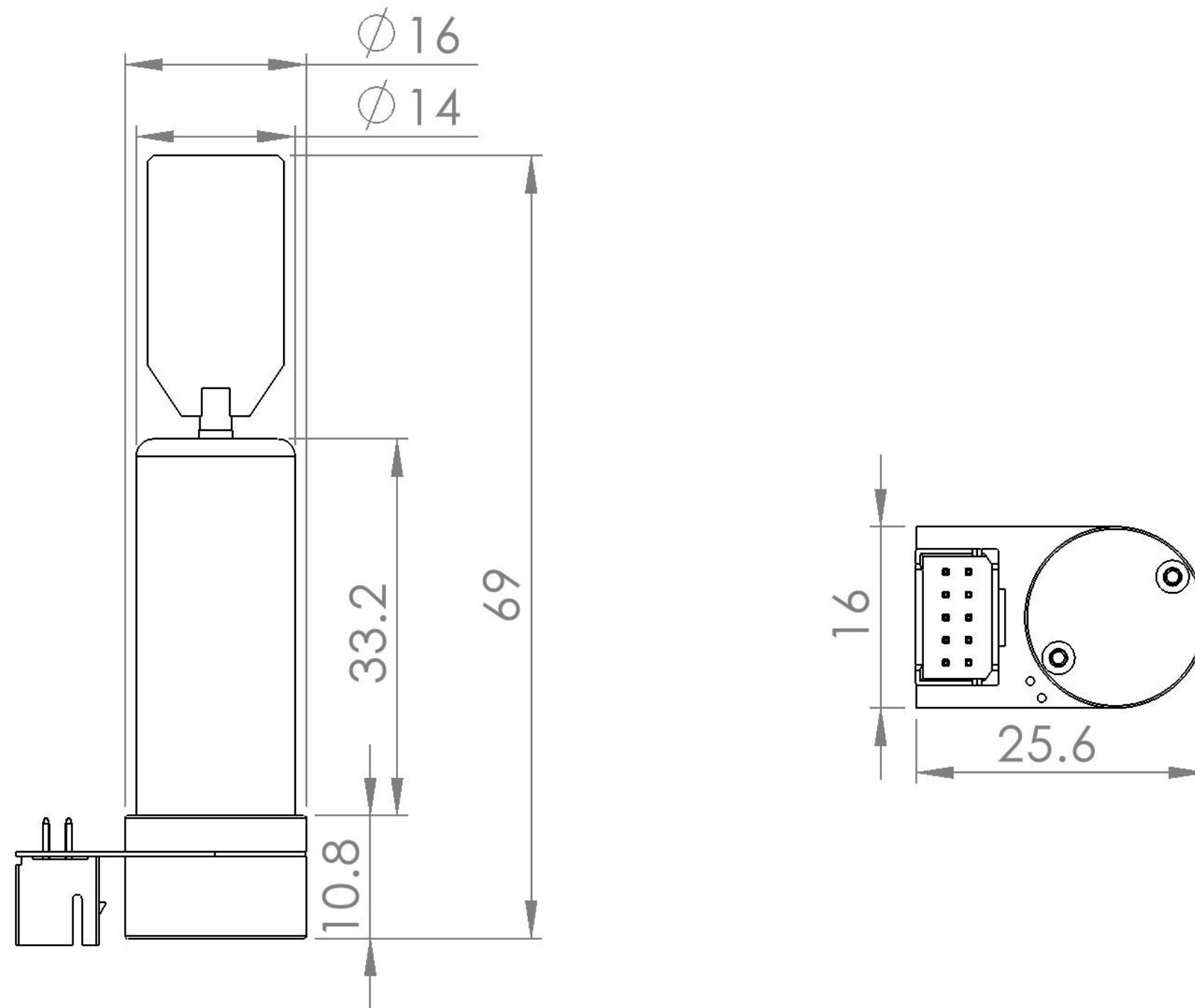
DT50BB assemble



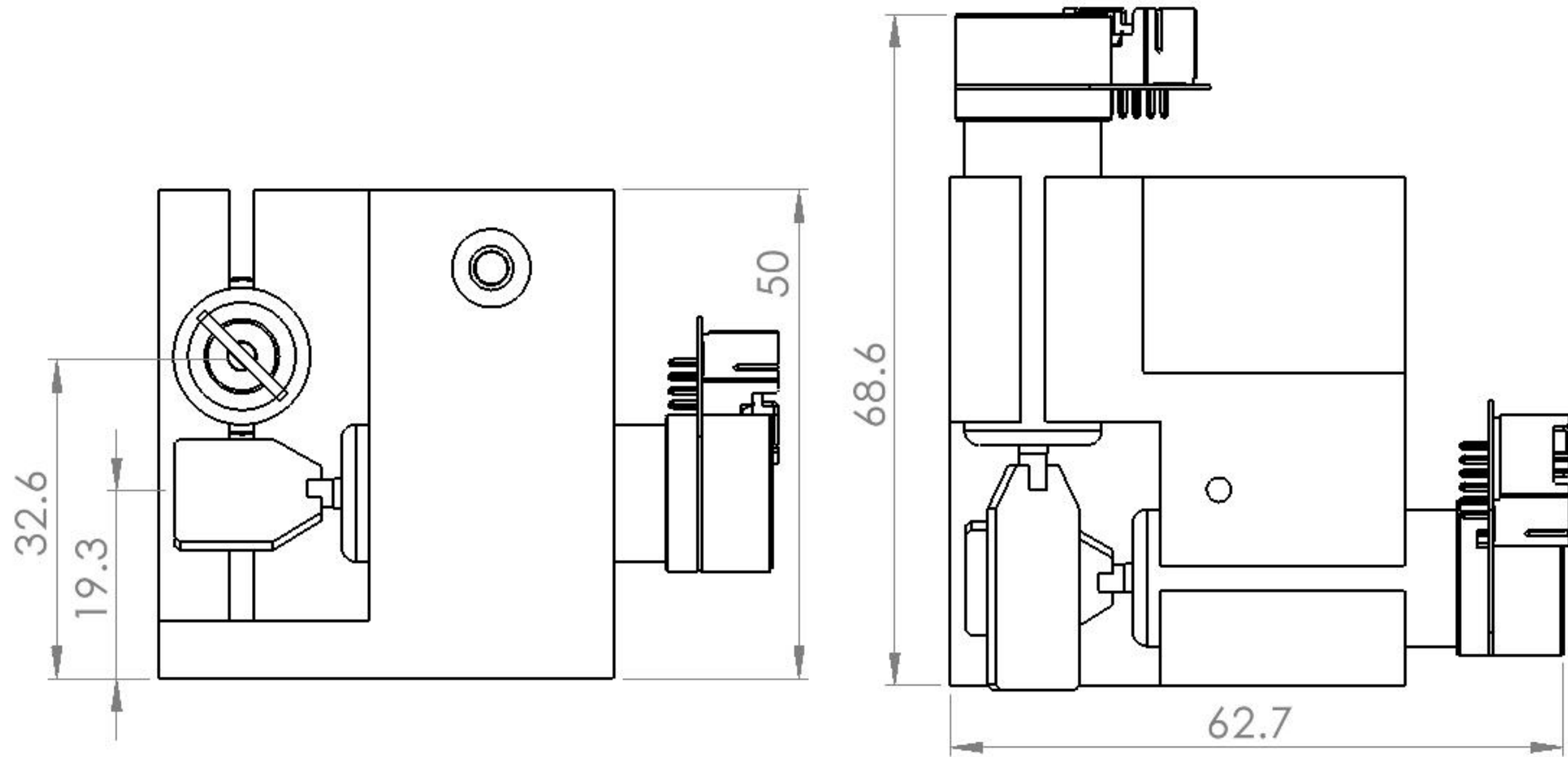
DT30Plus_X_galvo



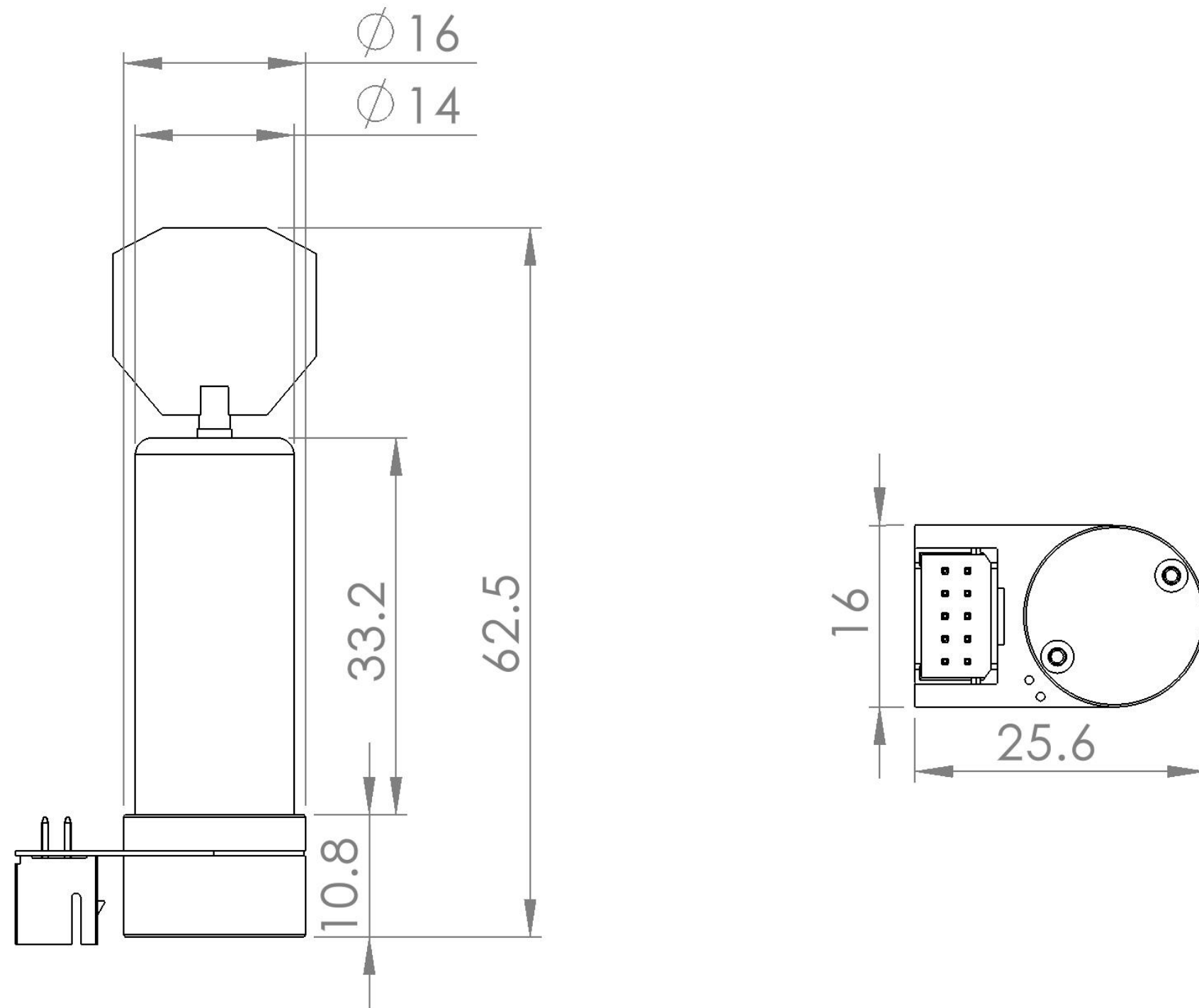
DT30Plus_Y_galvo



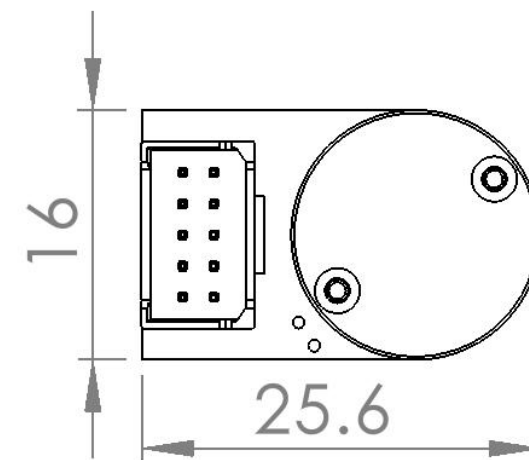
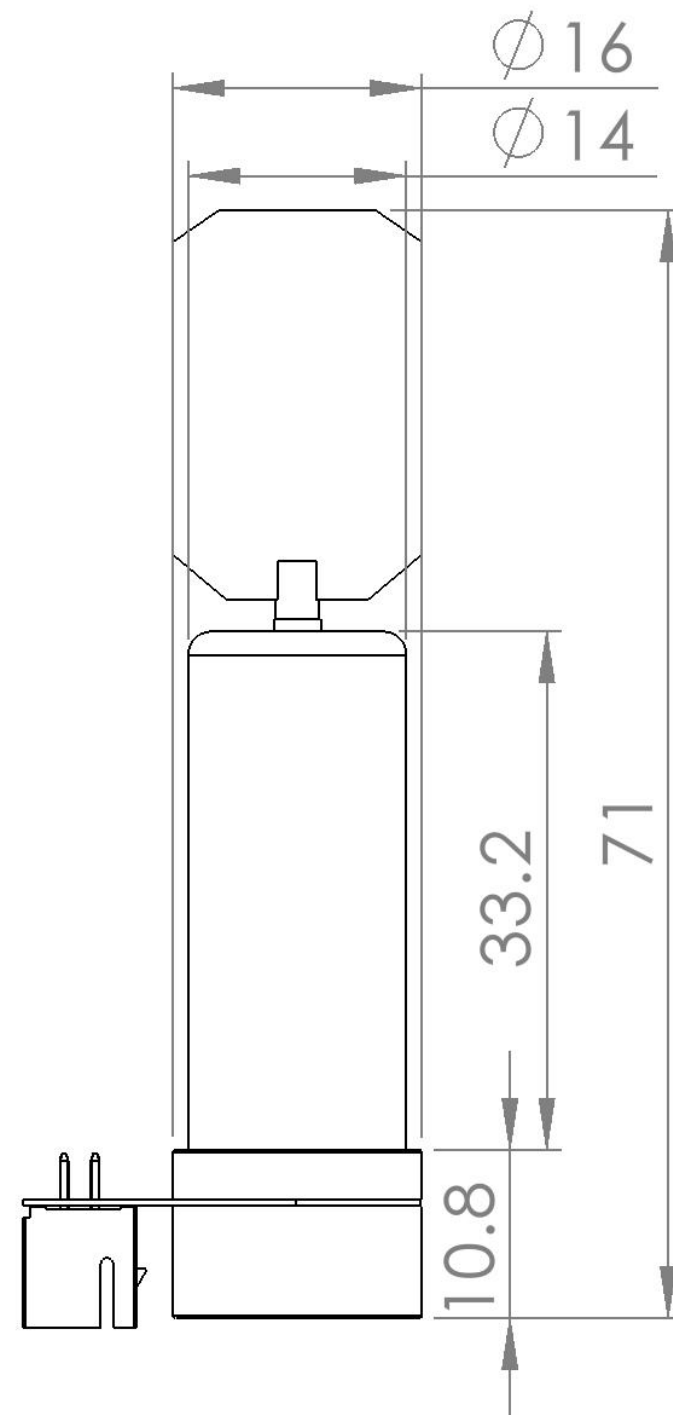
DT30Plus assemble



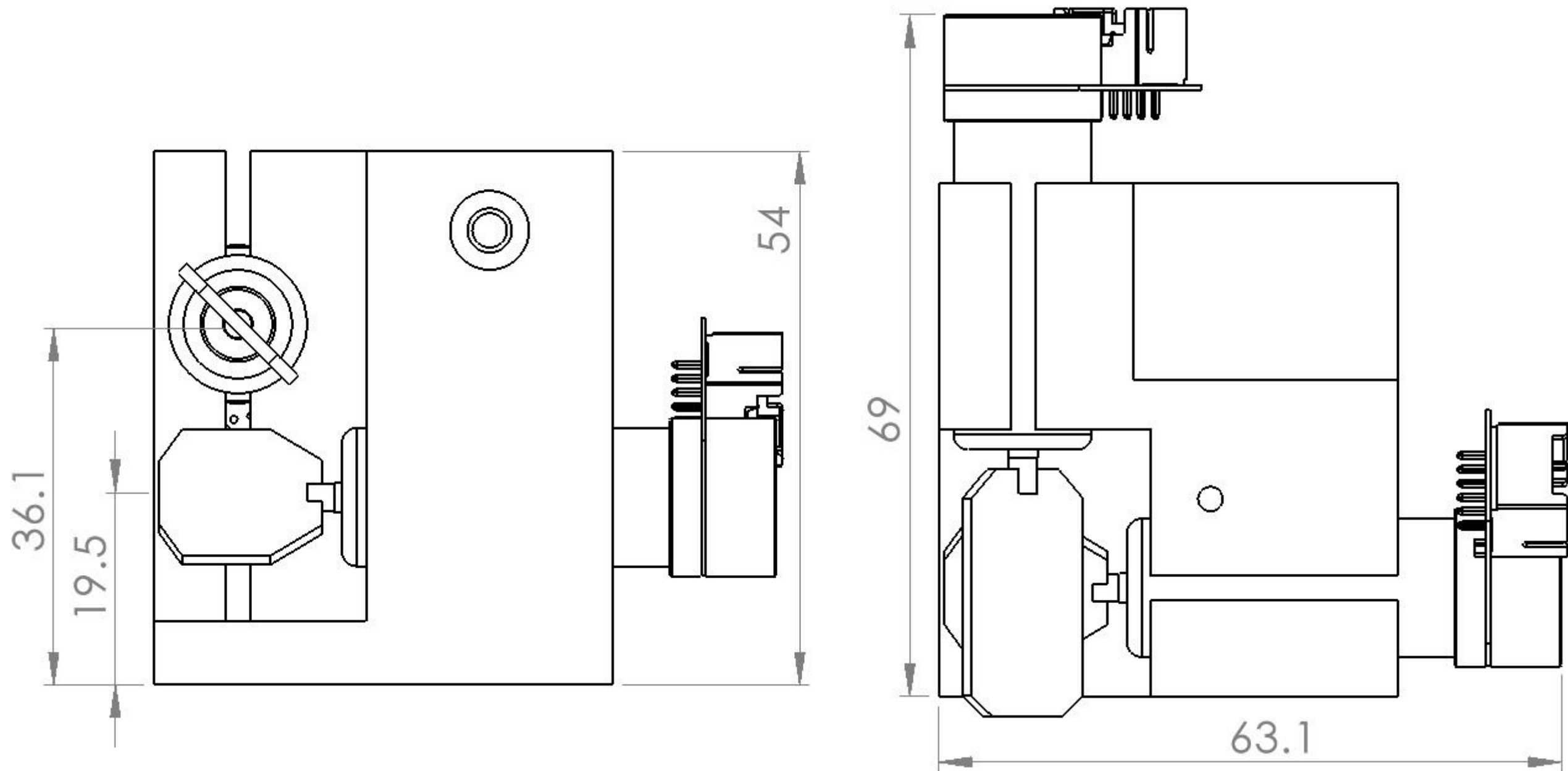
DT30Plus+_X_galvo



DT30Plus+_X_galvo



DT30Plus+ assemble



DT Galvo driver

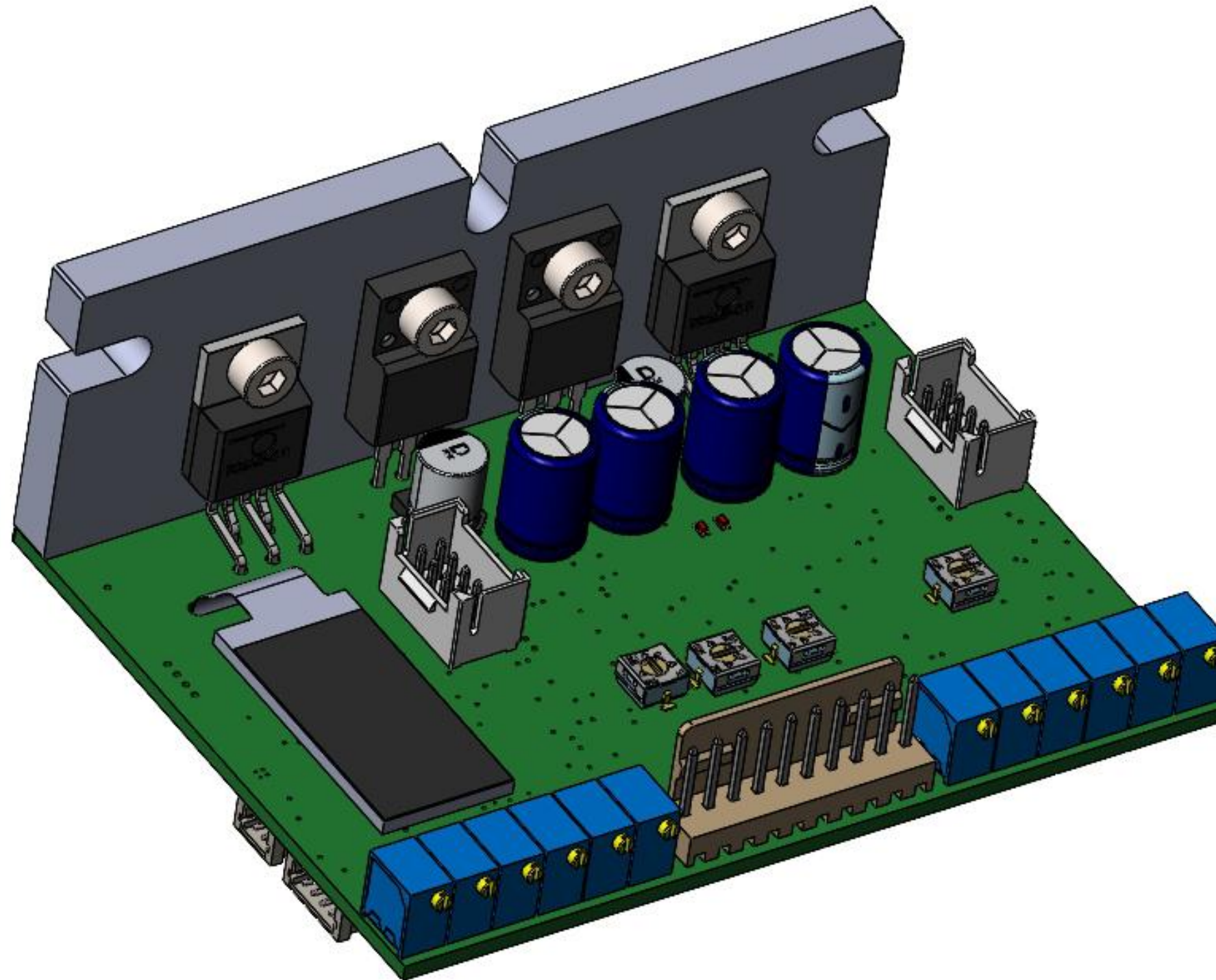
Profile:

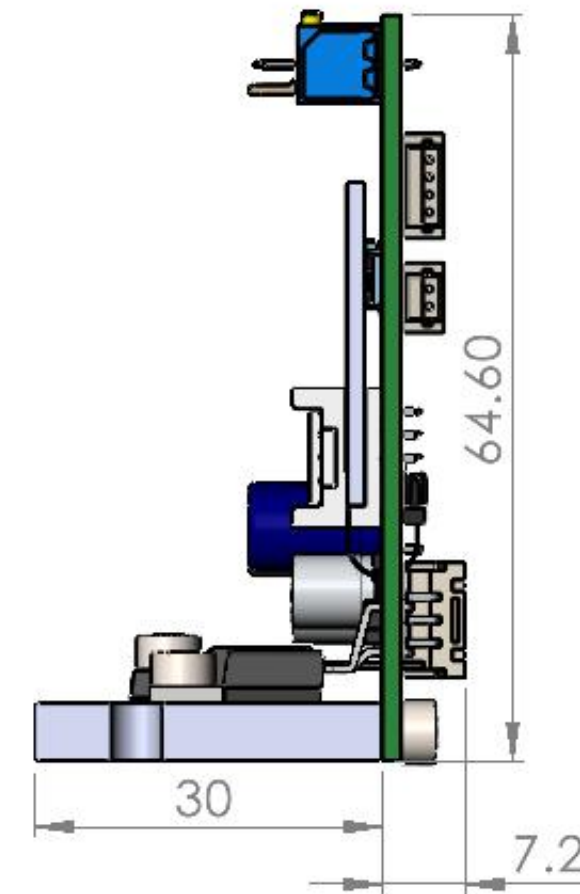
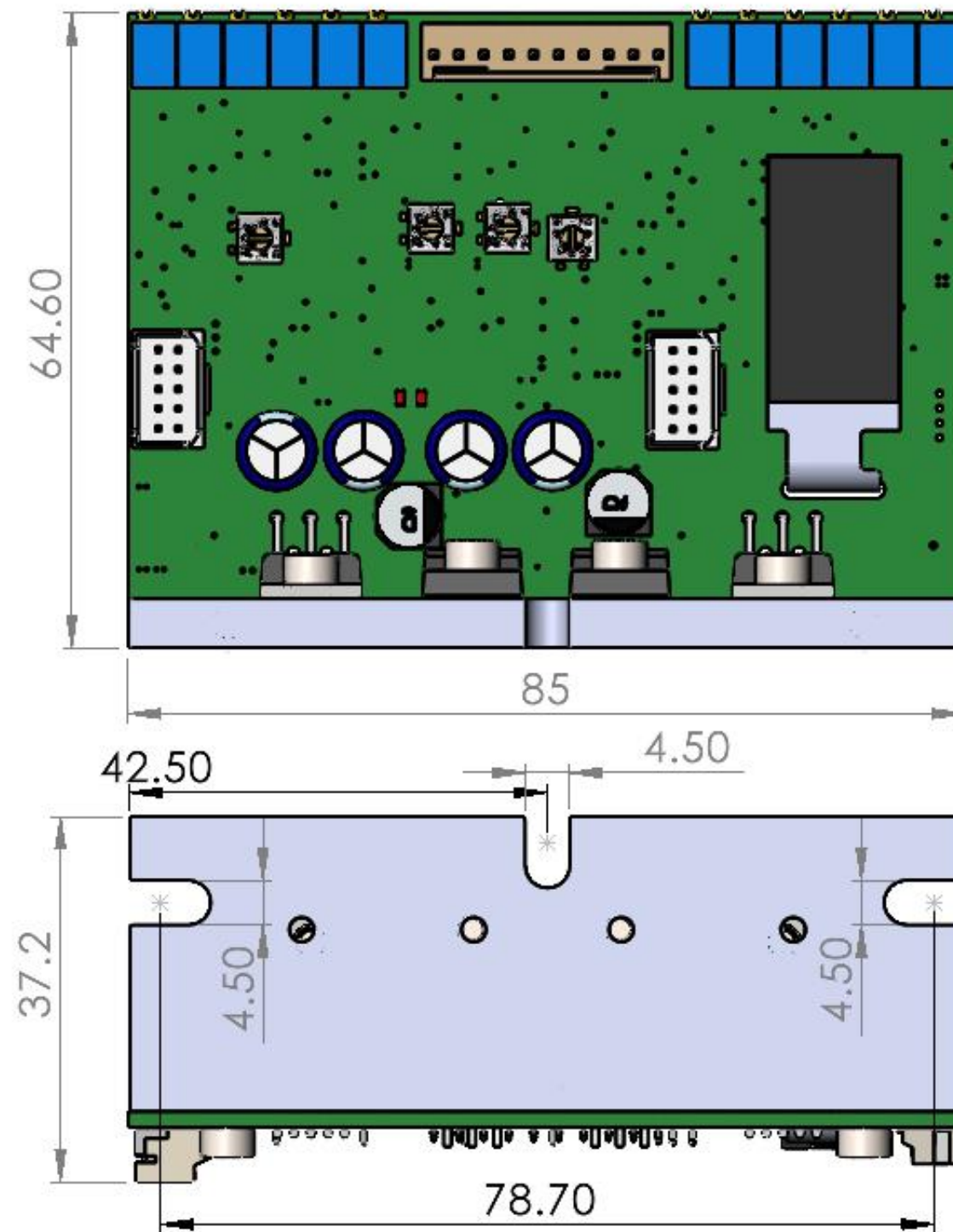
1. Compatible with all models of galvo
2. Pioneering digital galvo protection function (patented in China, the United States, and Germany)
3. The onboard display screen can monitor the working temperature and status of the device
4. Six layer PCB, strong anti-interference, stable operation
5. Protection triggered off shutting control

	Size (mm)	Weight (g)	Supply Voltage (V)	For all Galvo	Temperature Detection and	Onboard Data Display Screen	Galvo Cable (mm)
Dual Channel Driver Board	85*65*37	81	±24	√	√	√	200/400
Single Channel Driver Board	45*45*27	34	±24	√	×	×	200/400

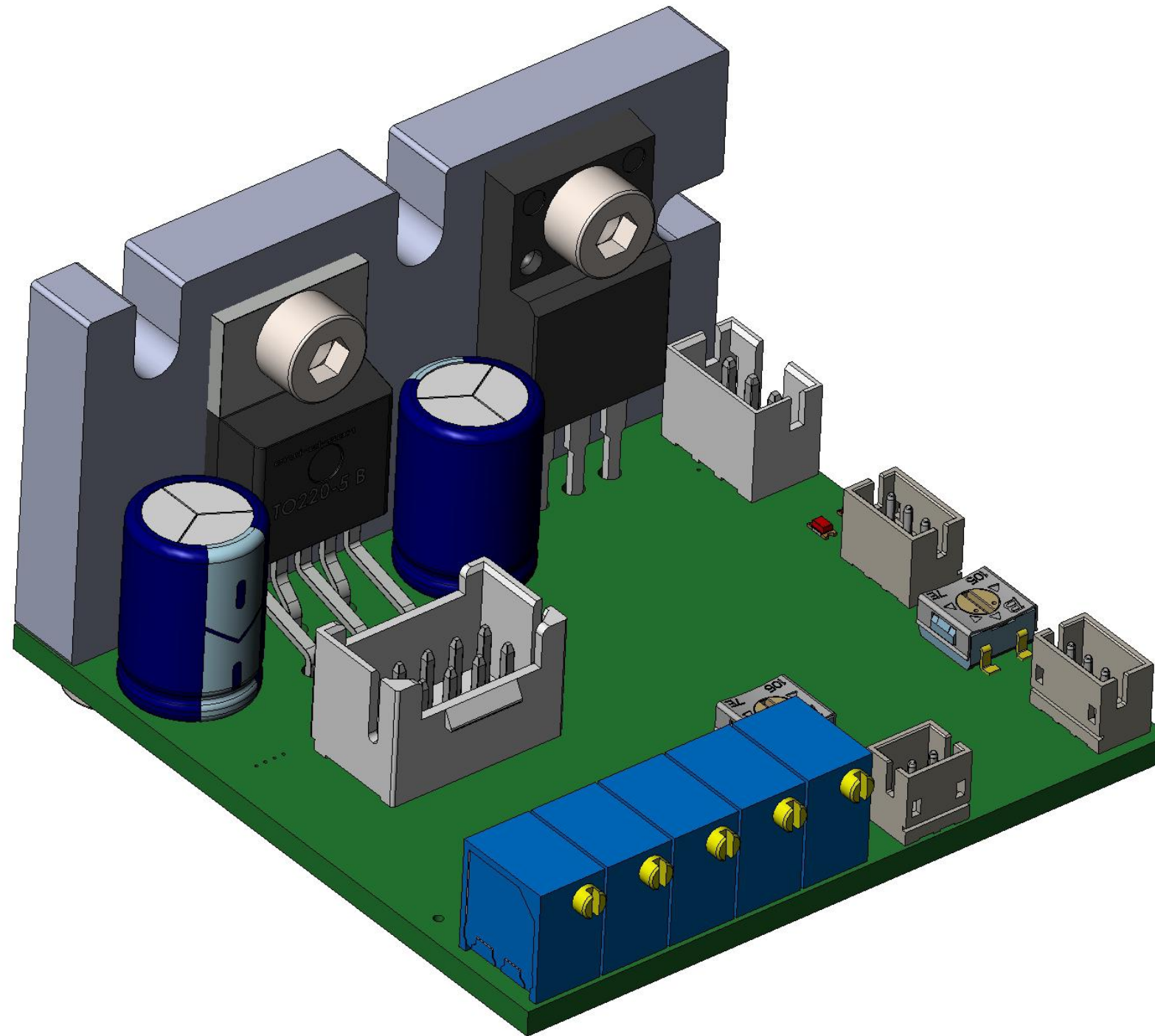
*The length of the galvo connection cable can be customized. The longest galvo cable we have ever customized is 9 meters, and the galvo works stably without any abnormalities.

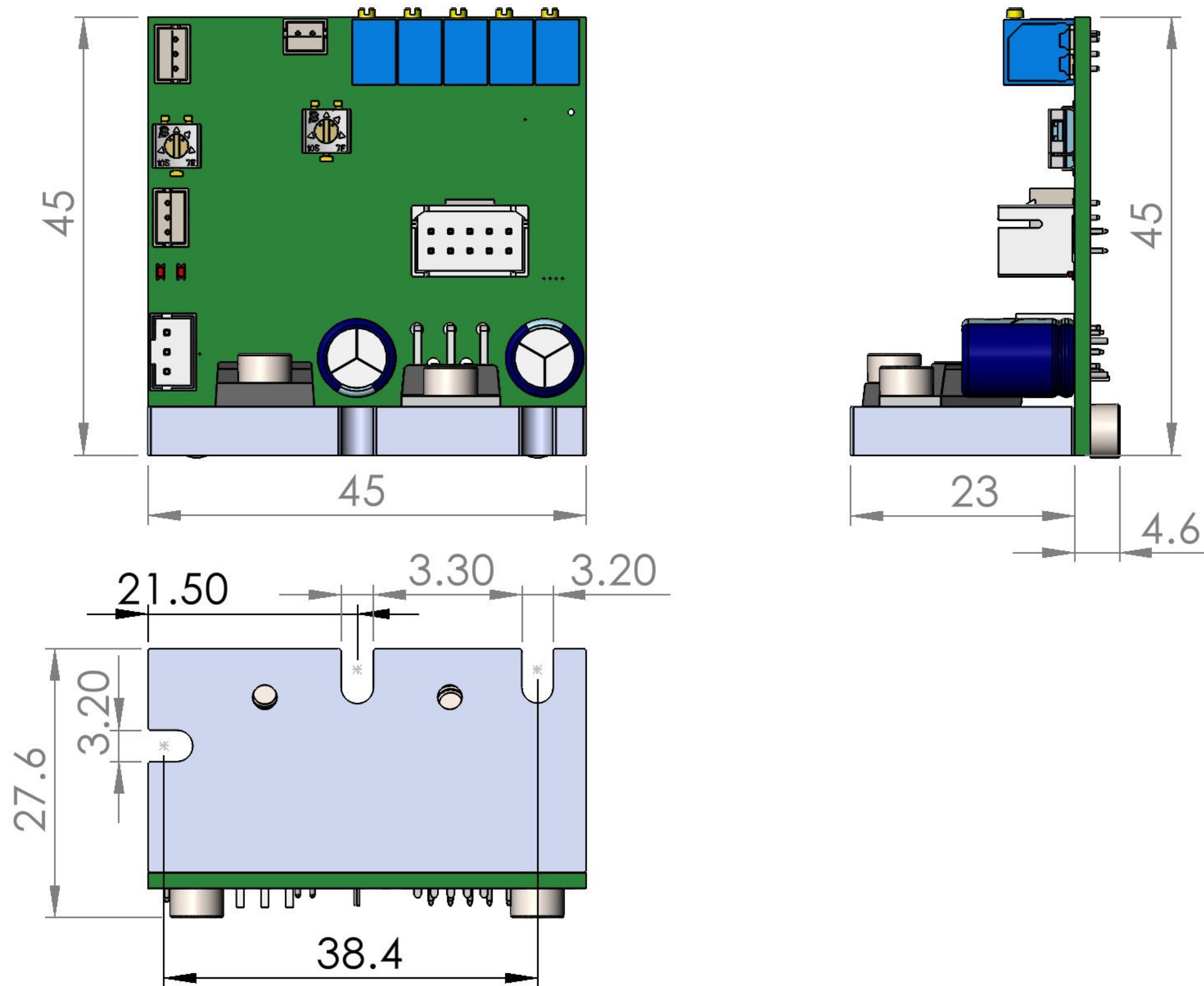
Dual channel driver board





Single channel driver board





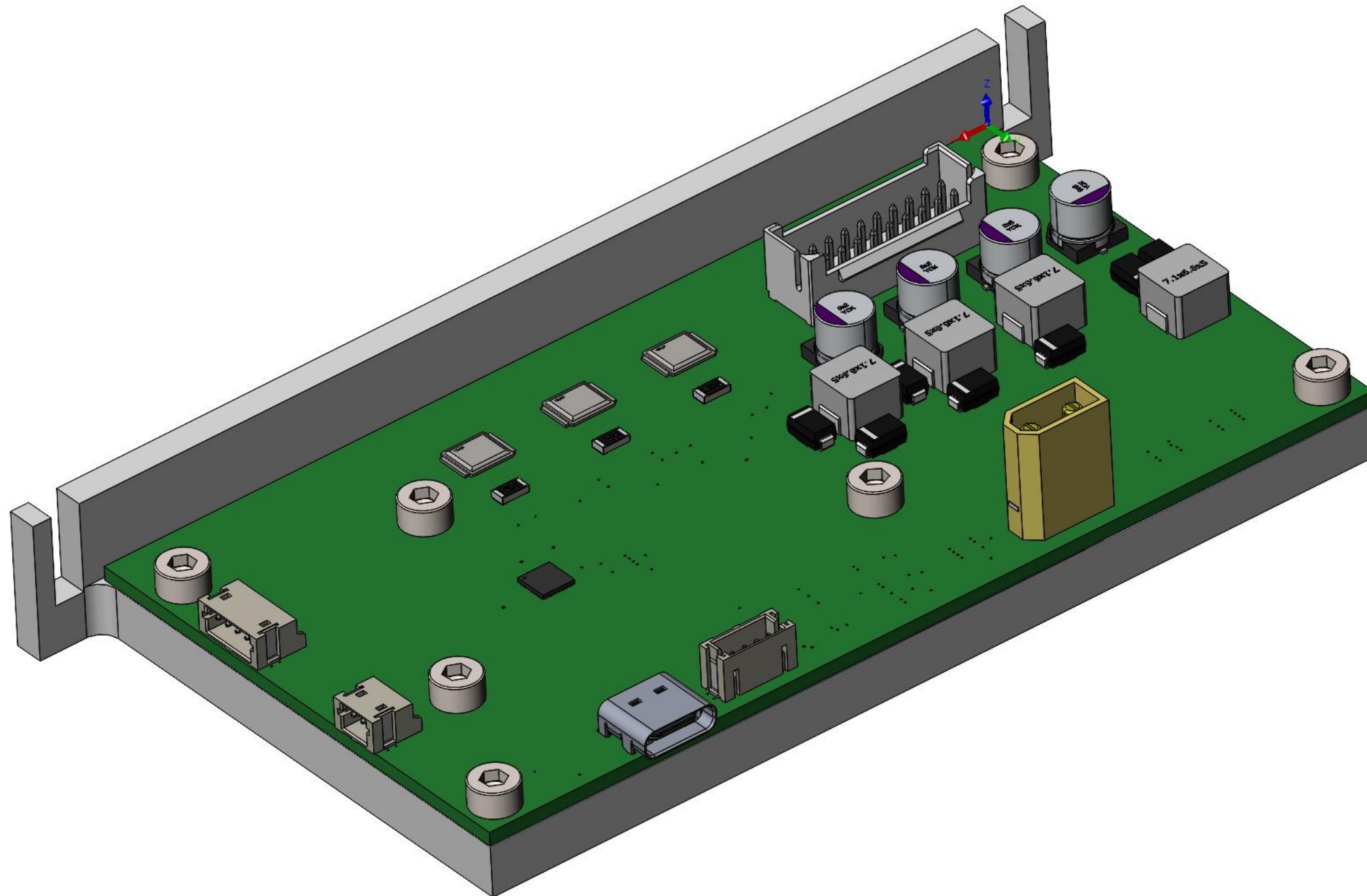
DT Laser driver series

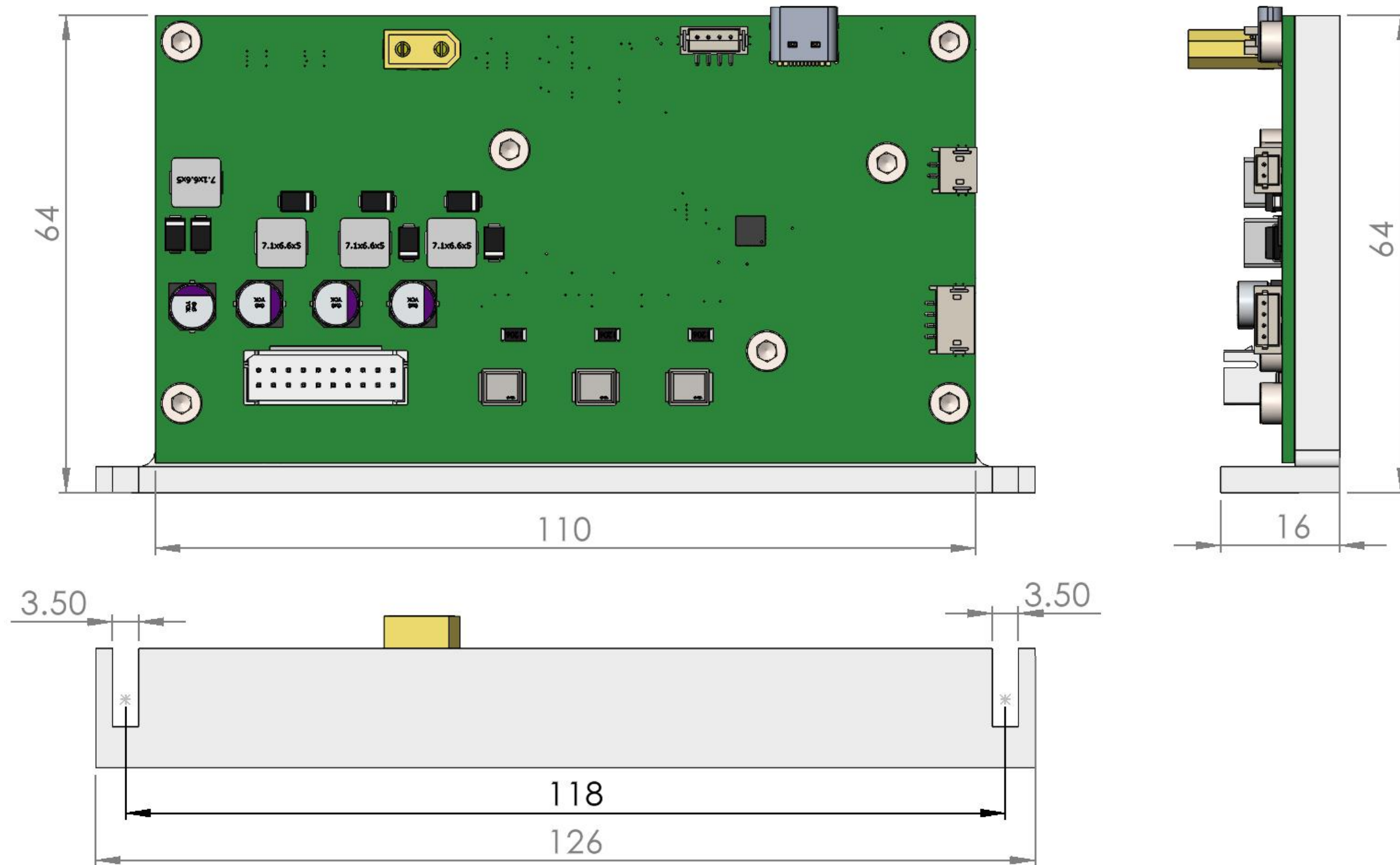
Profile :

- 1.Pioneering digital laser driver, digital adjustment of current, voltage, on/off light
- 2.High speed, high-precision modulation
- 3.High conversion efficiency and low heat
- 4.Minimum 1% brightness
- 5.1-100% brightness adjustment without color deviation, good linearity
- 6.Set parameters for saving and writing, with high batch production efficiency and no need for professional training to adjust to perfection
- 7.Small size, simple installation and wiring
- 8.Integrated multi-channel refrigeration, precise constant temperature control
- 9.Real time monitoring of driver board operation by high-speed processors
- 10.There is a comprehensive protection mechanism for overload and abnormal states

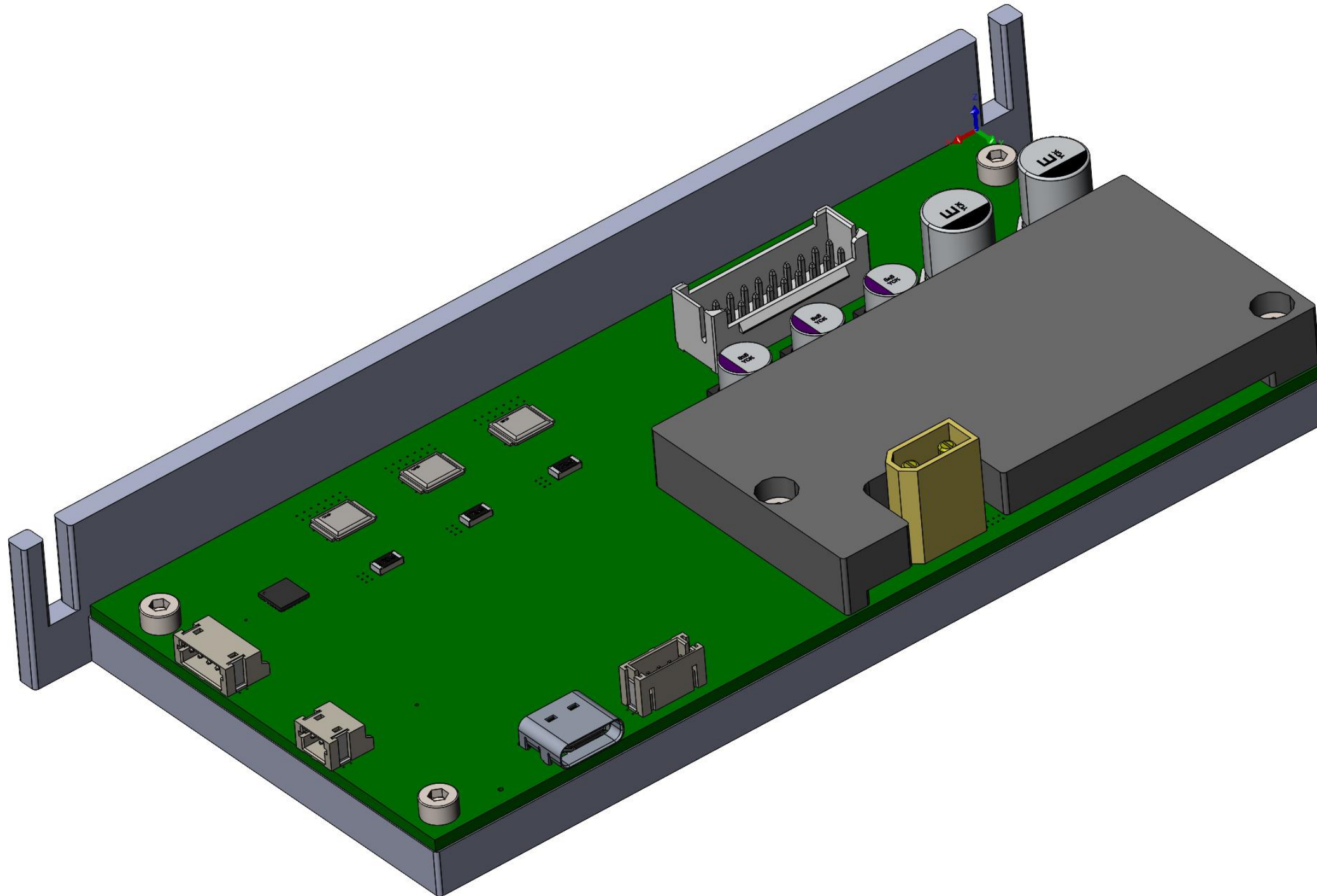
	Size (mm)	Weight (g)	Supply Voltage (V)	Modulation Frequency (KHz)	Color Channels	Color Voltage Range (V)	Color Current Range (A)	Tec Channels	Tec Power (W)
5W-10W	110*63.5*19	175	24	200	3	0.8-22.5	0.2-3.3	1	40/80
12W-20W	125*63.5*19	222	24	200	3	0.8-22.5	0.2-3.3	2	40/80
22W-30W	155*63.5*19	297	24	200	4	0.8-22.5	0.2-3.3	3	40/80

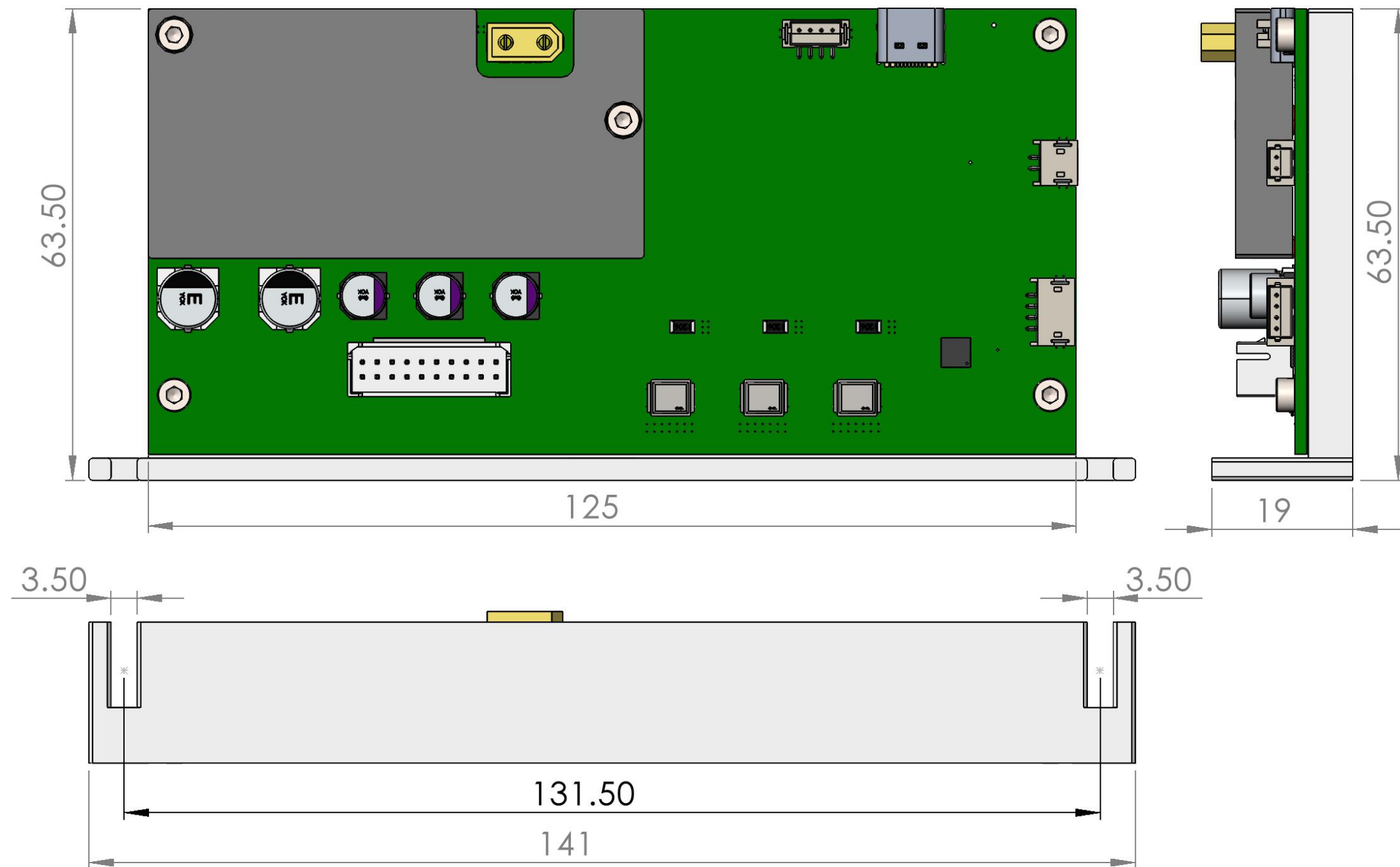
5W-10W Laser driver



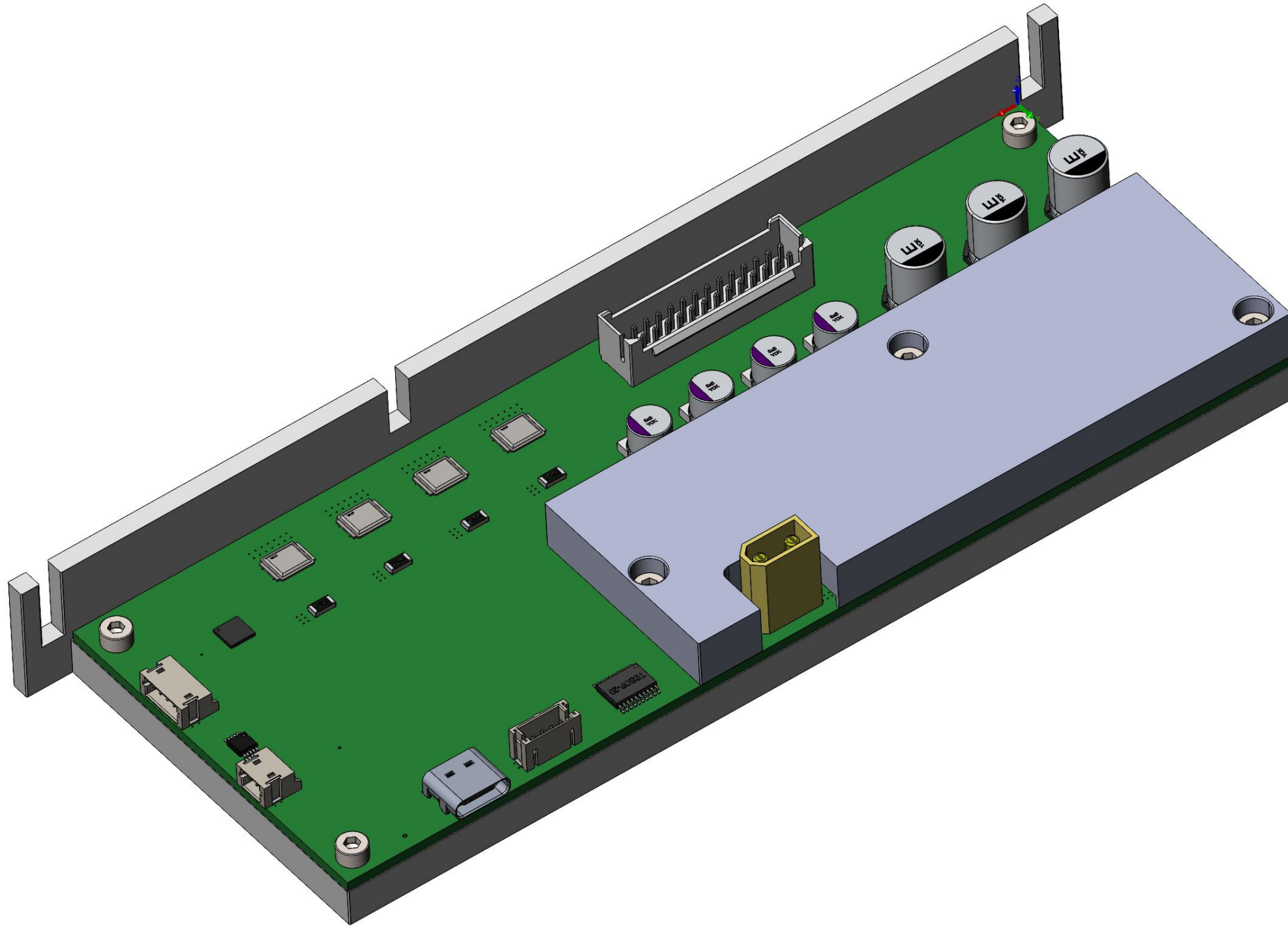


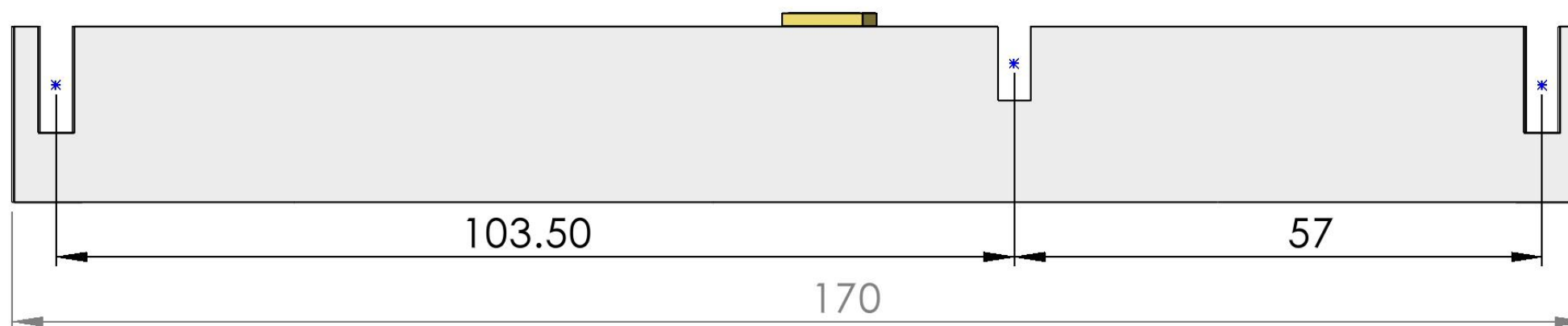
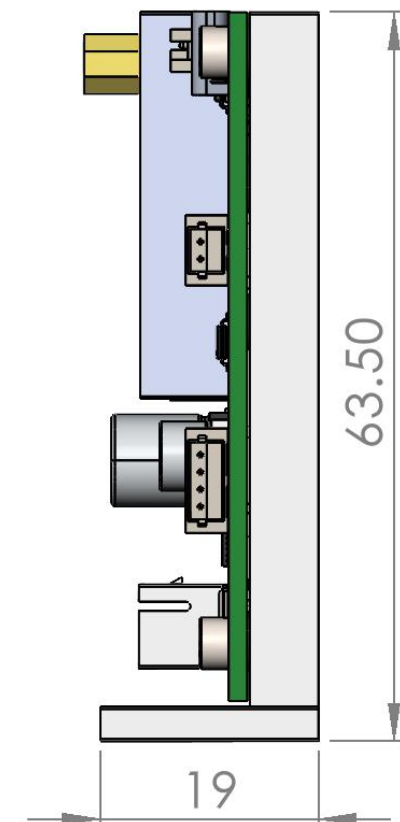
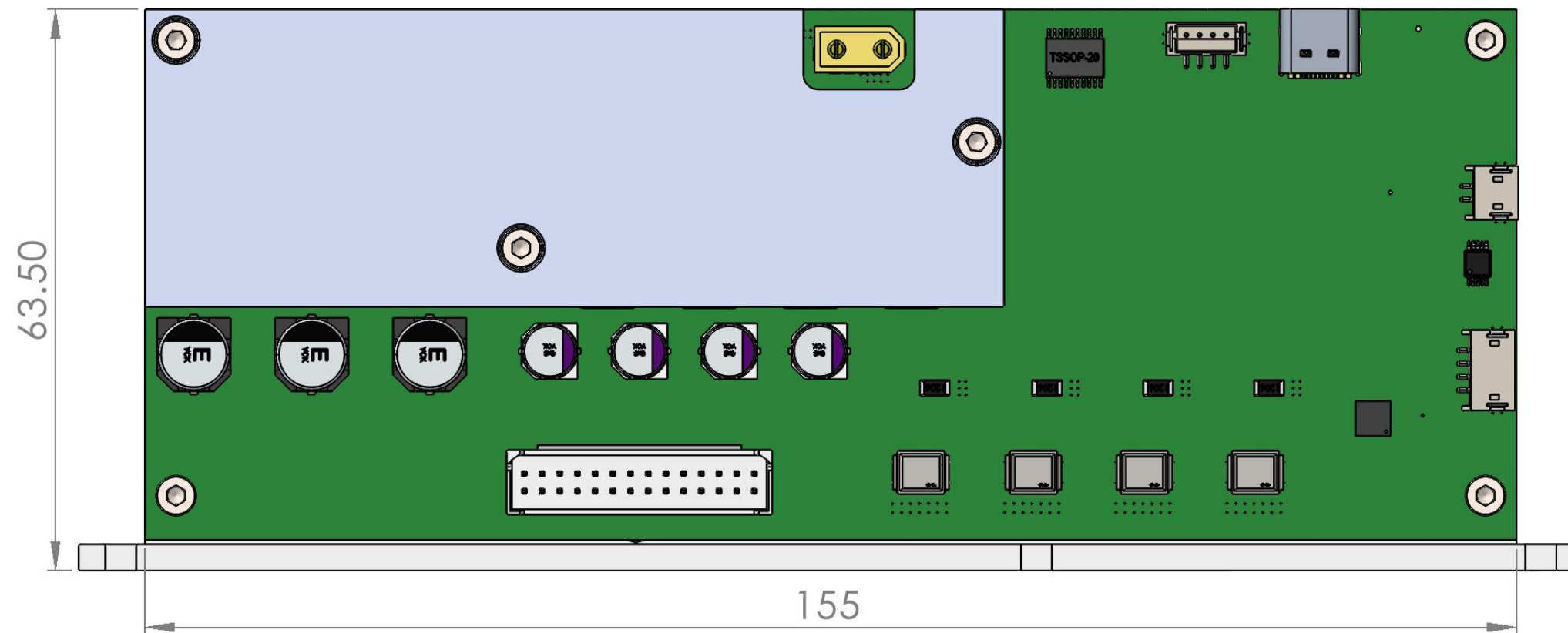
12W-20W Laser driver





22W-30W Laser driver





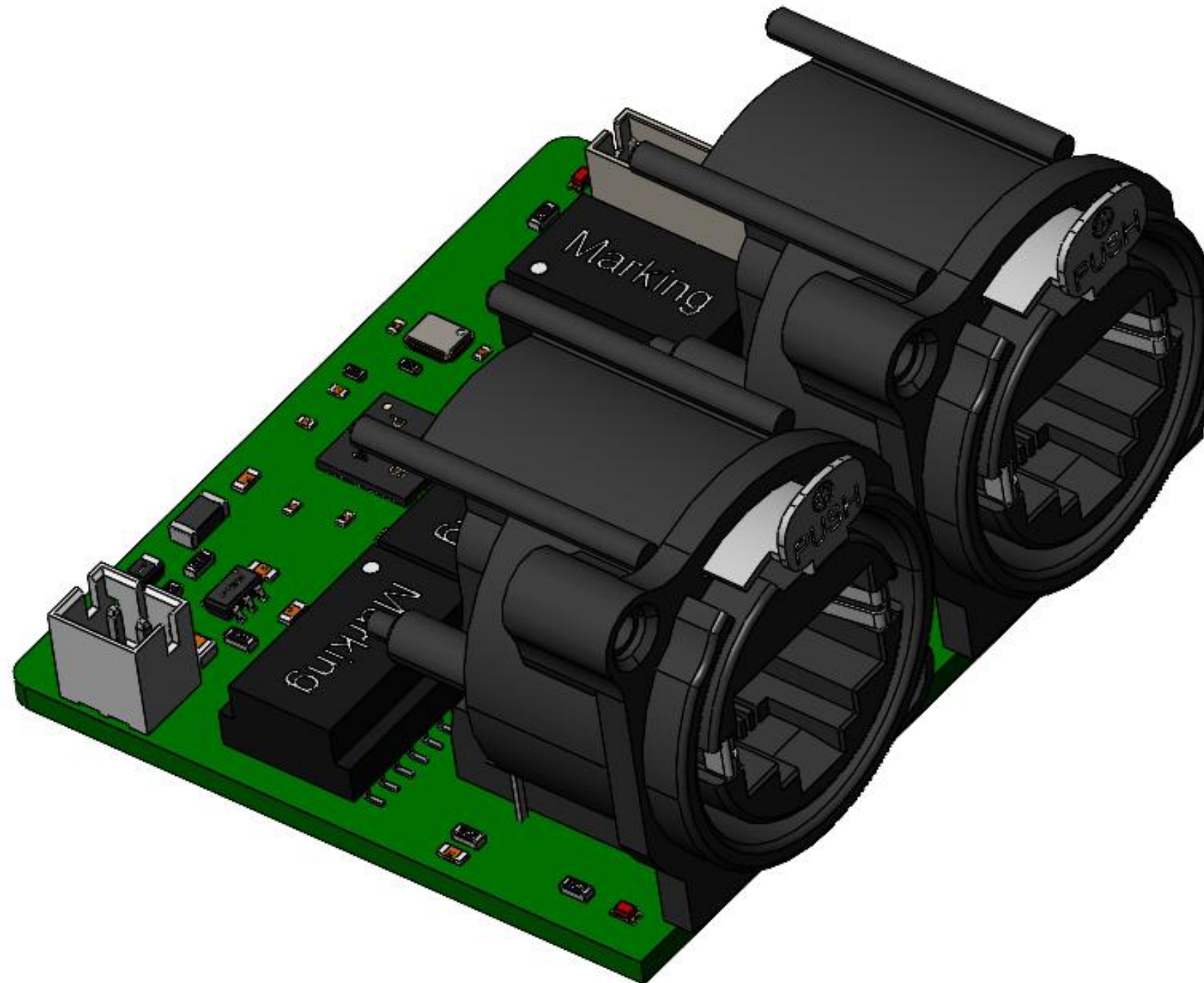
Other parts

Profile :

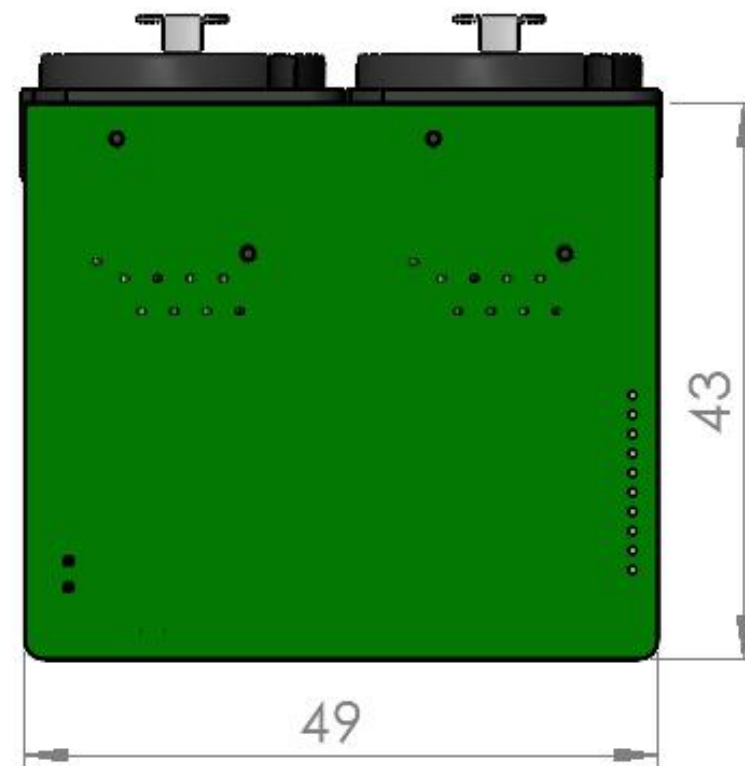
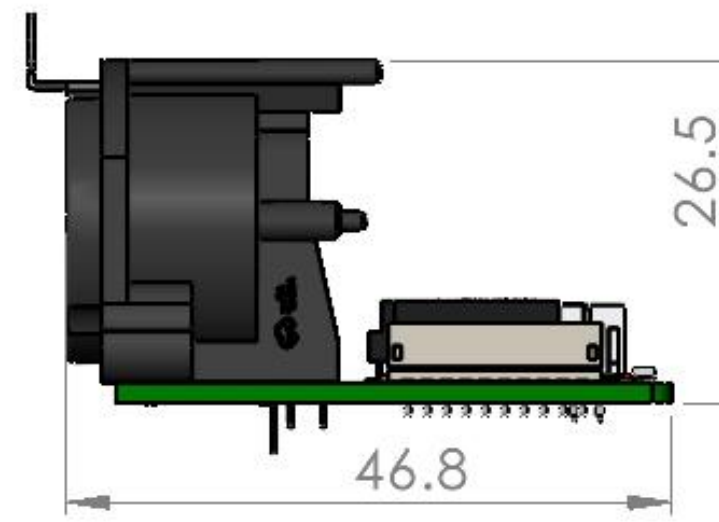
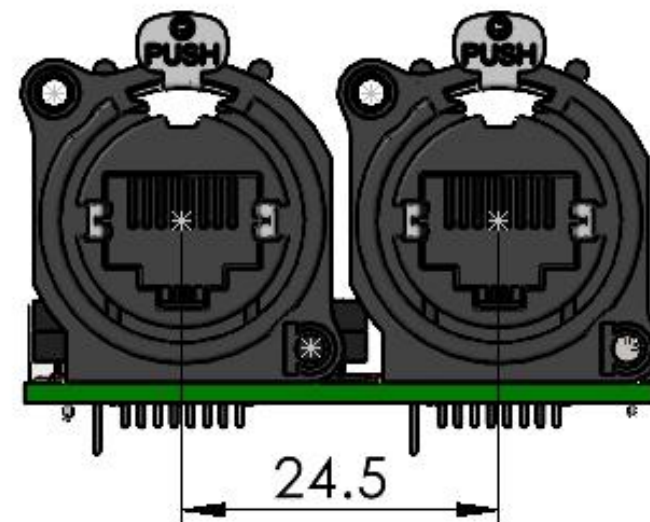
- 1.100M , 1000M switch , Compatible with FB4, plug and play
- 2.Wide voltage power supply, low power consumption, low heat
- 3.Stable connection and strong anti-interference ability

	Supply Voltage (V)	Weight (g)	Size (mm)	Max Power Consumption(W)	Maximum Number of Online (set)
100M switch	8-24	25	49*43*26.5	<1.5	10-12
1000M switch	8-24	30	49*49.8*26.	<1.5	18-20

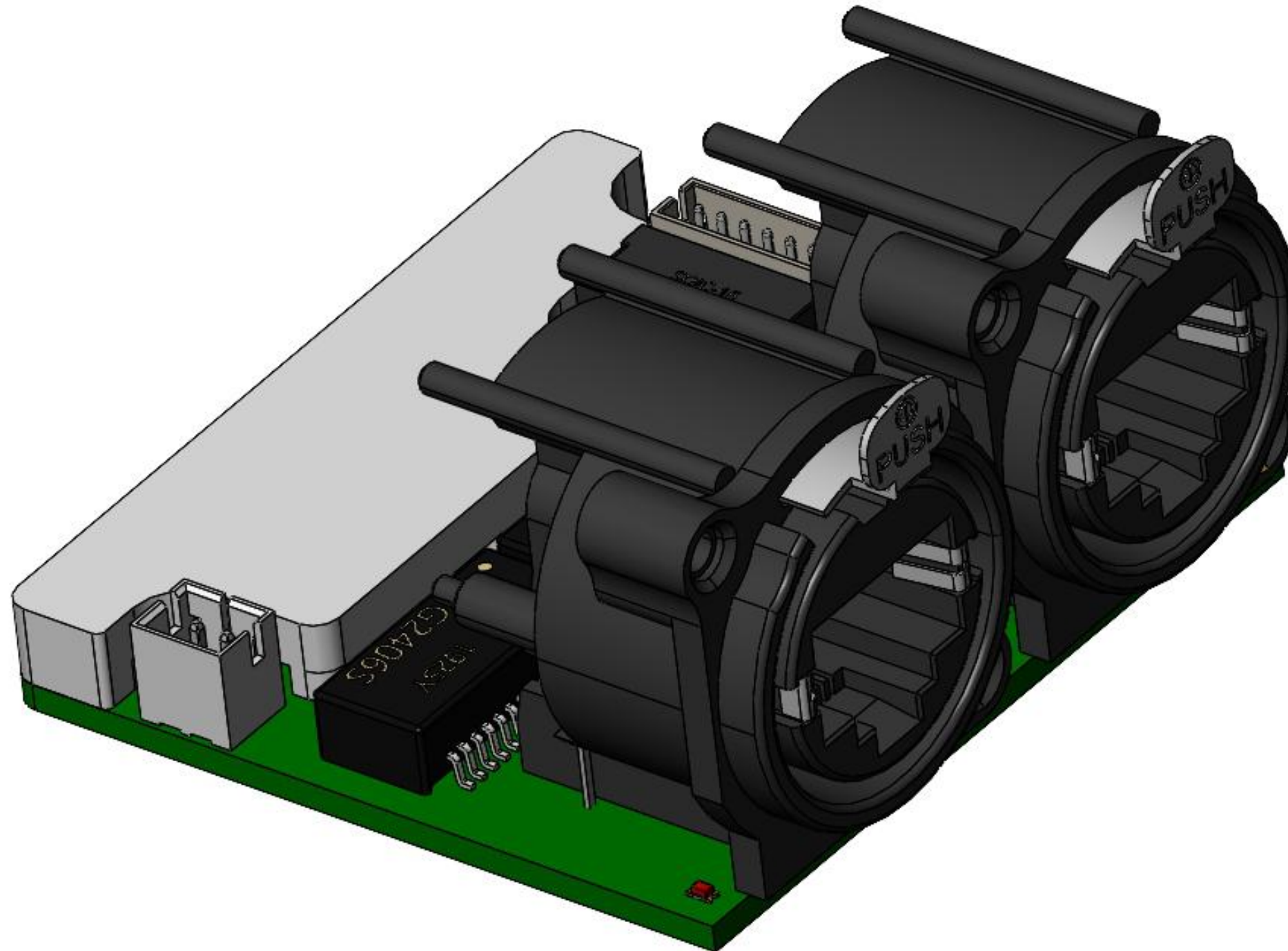
100M switch



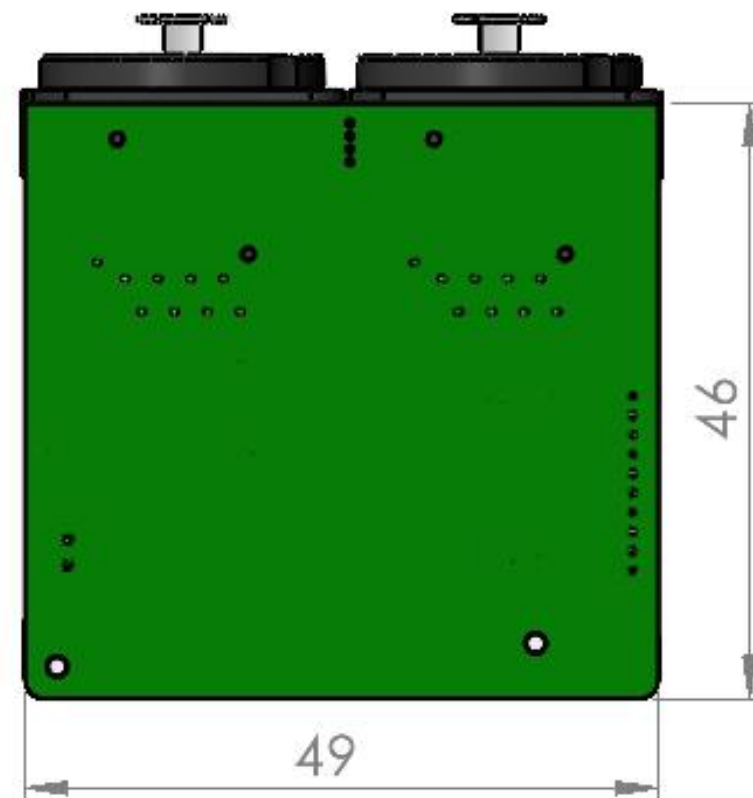
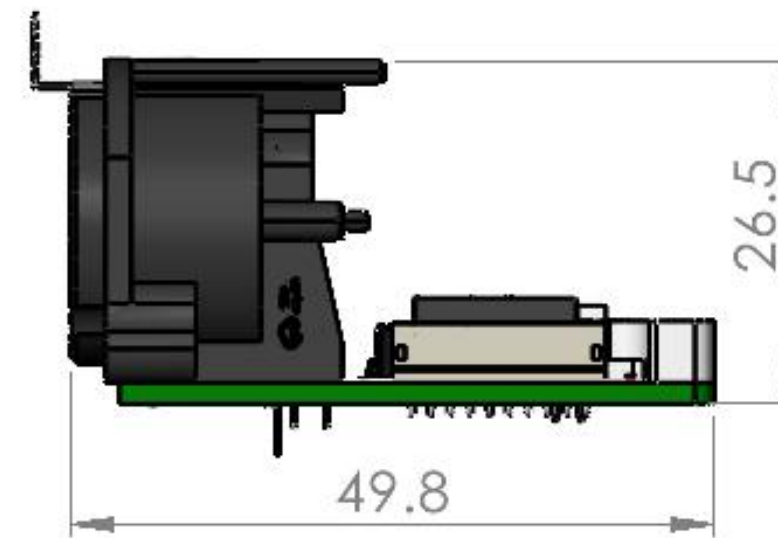
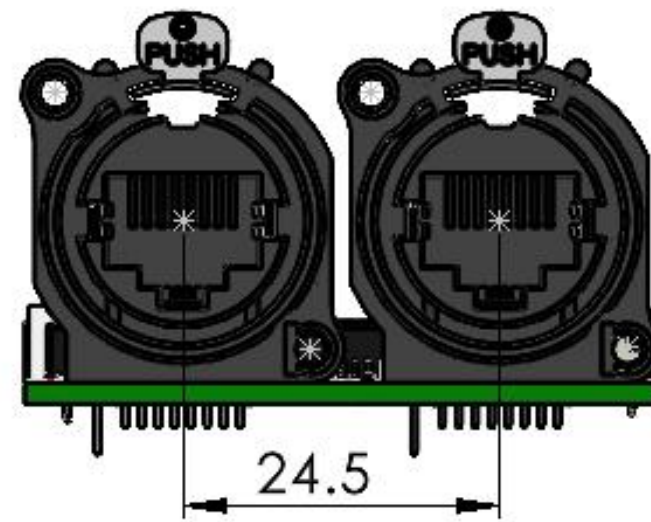
100M switch



1000M switch



1000M switch



1.Download the 3D design files and instructions for the galvanometer motor and driver board

<http://dtscanner.cn/en/suportsen>

2.Laser drive adjust teaching.

https://drive.google.com/file/d/1FXsrQmL6obg8txOGw8IA1sbFG9BznL5p/view?usp=drive_link