

A

B

C

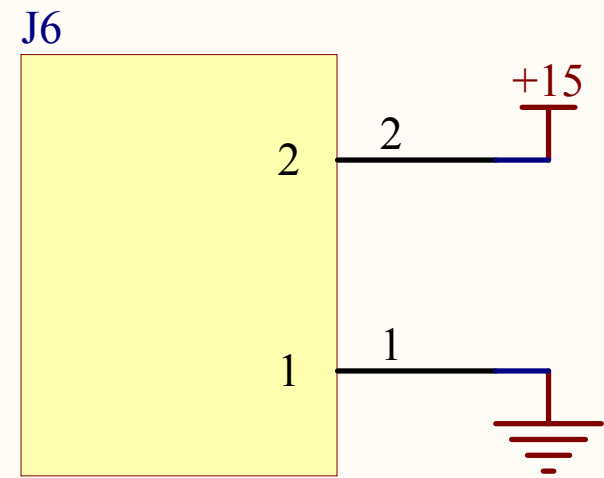
D

A

B

C

D



+15 Volt regulated power supply Input

Emergency Stop IN is an active Low logic input coming from external logic. Normal Operation is at Logic High. NEVER CONNECT IT directly to +5 Volts, it is INTERNALLY PULLED UP.

ENCODER INTERFACE PINOUT

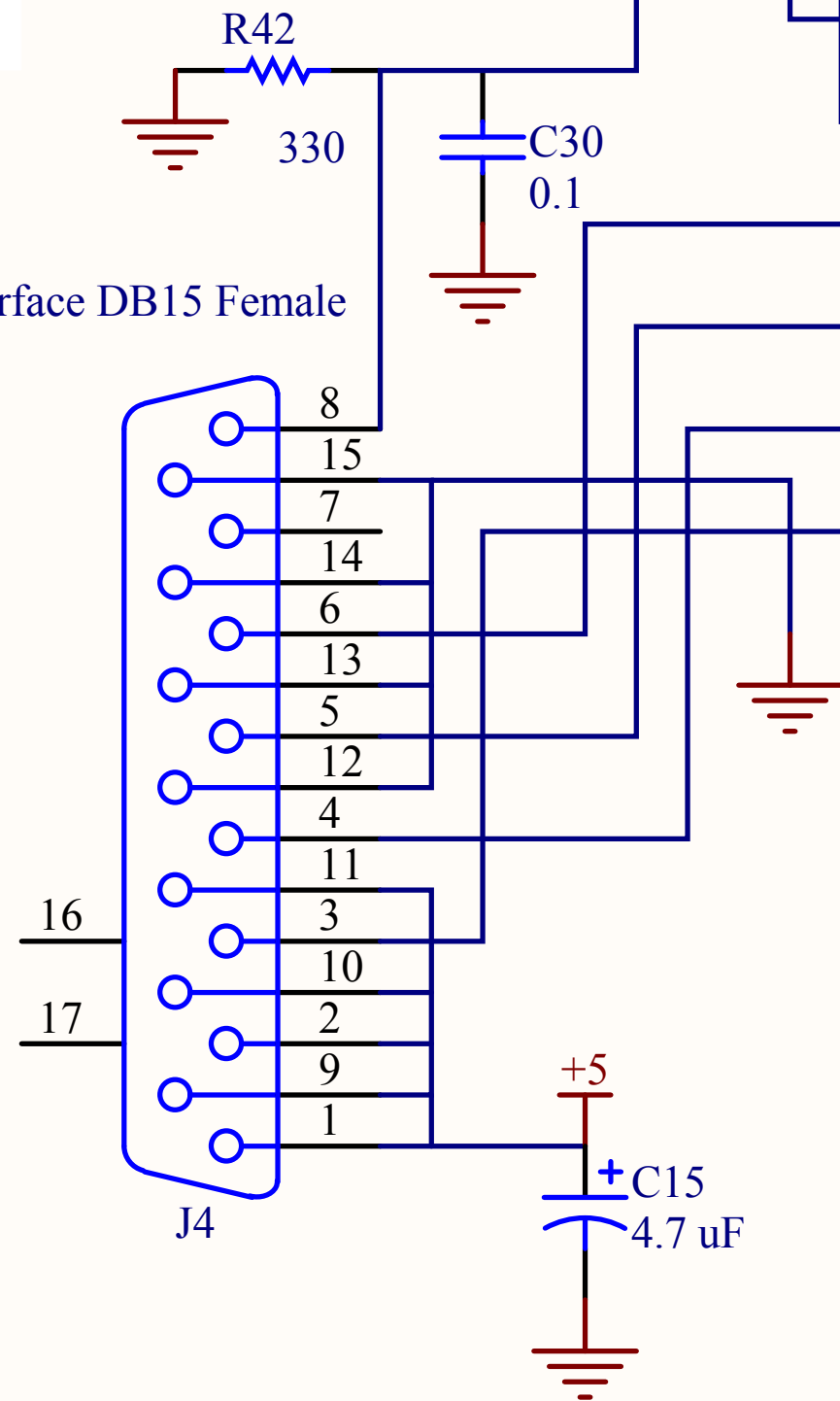
Pin 2 and Pin 8 should be jumpered in the Encoder side of the cable, so when the encoder is disconnected there is an Emergency Stop.

- A- pin 6
- A pin 5
- B- pin 4
- B pin 3

+5V (Encoder) pin 1, 2, 9, 10, 11

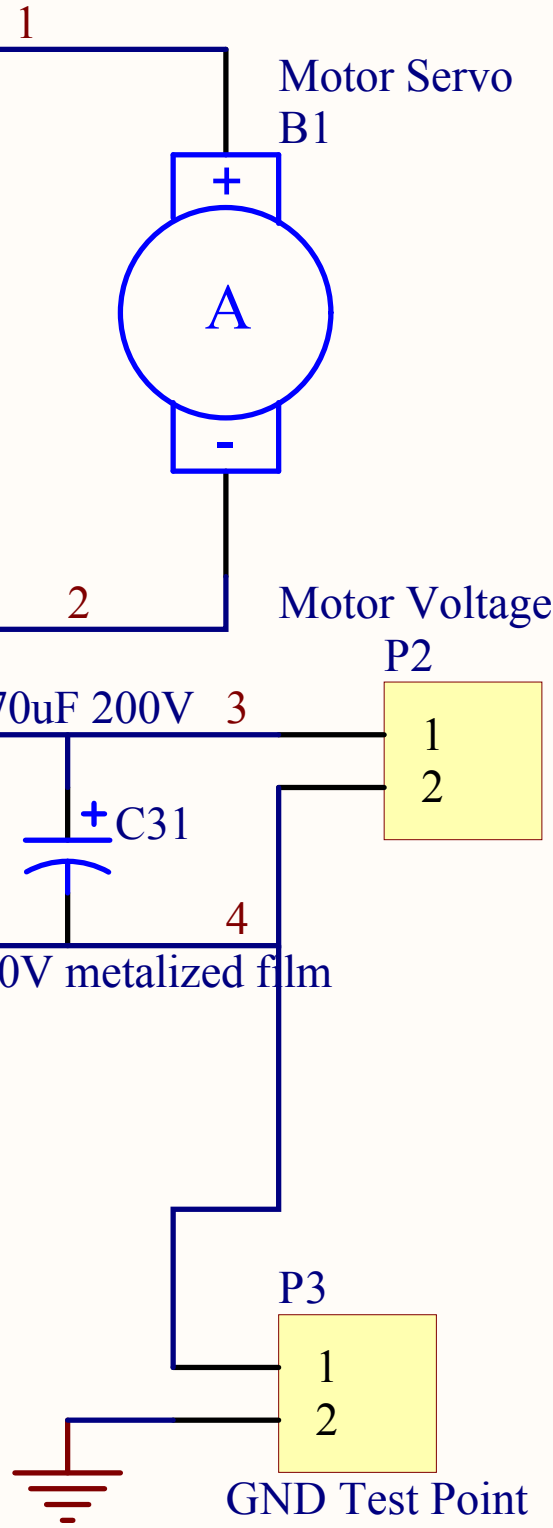
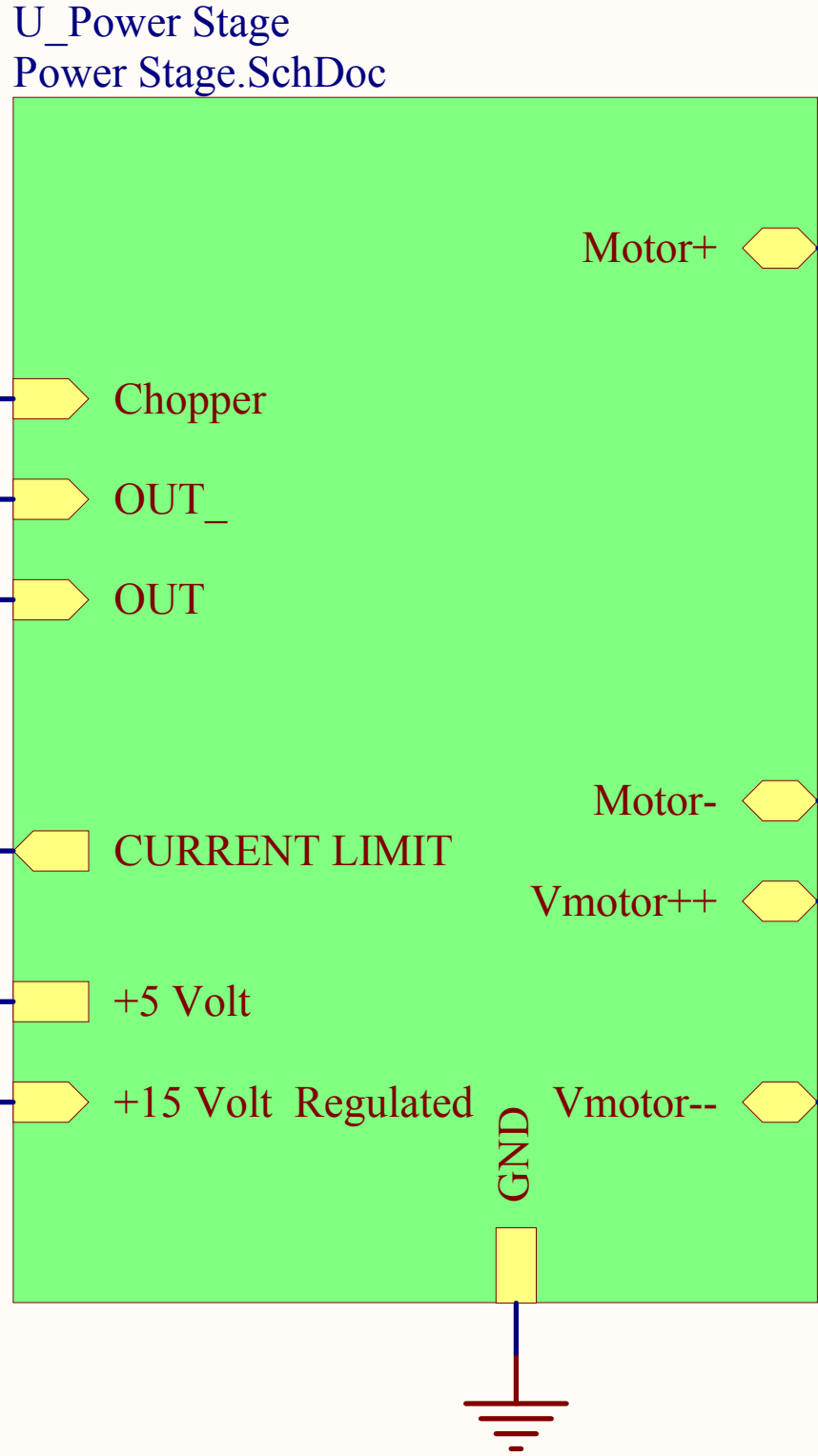
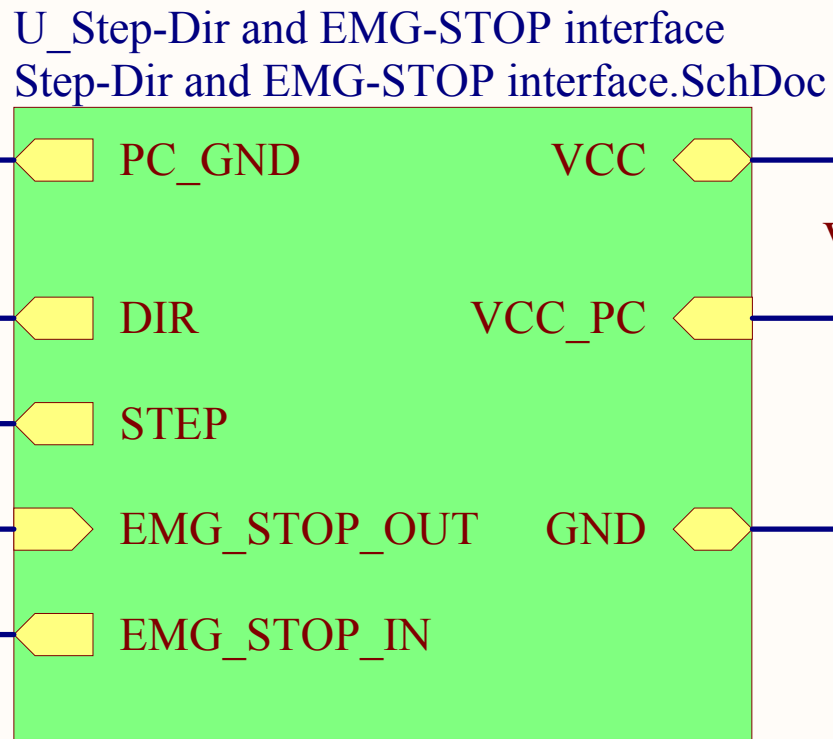
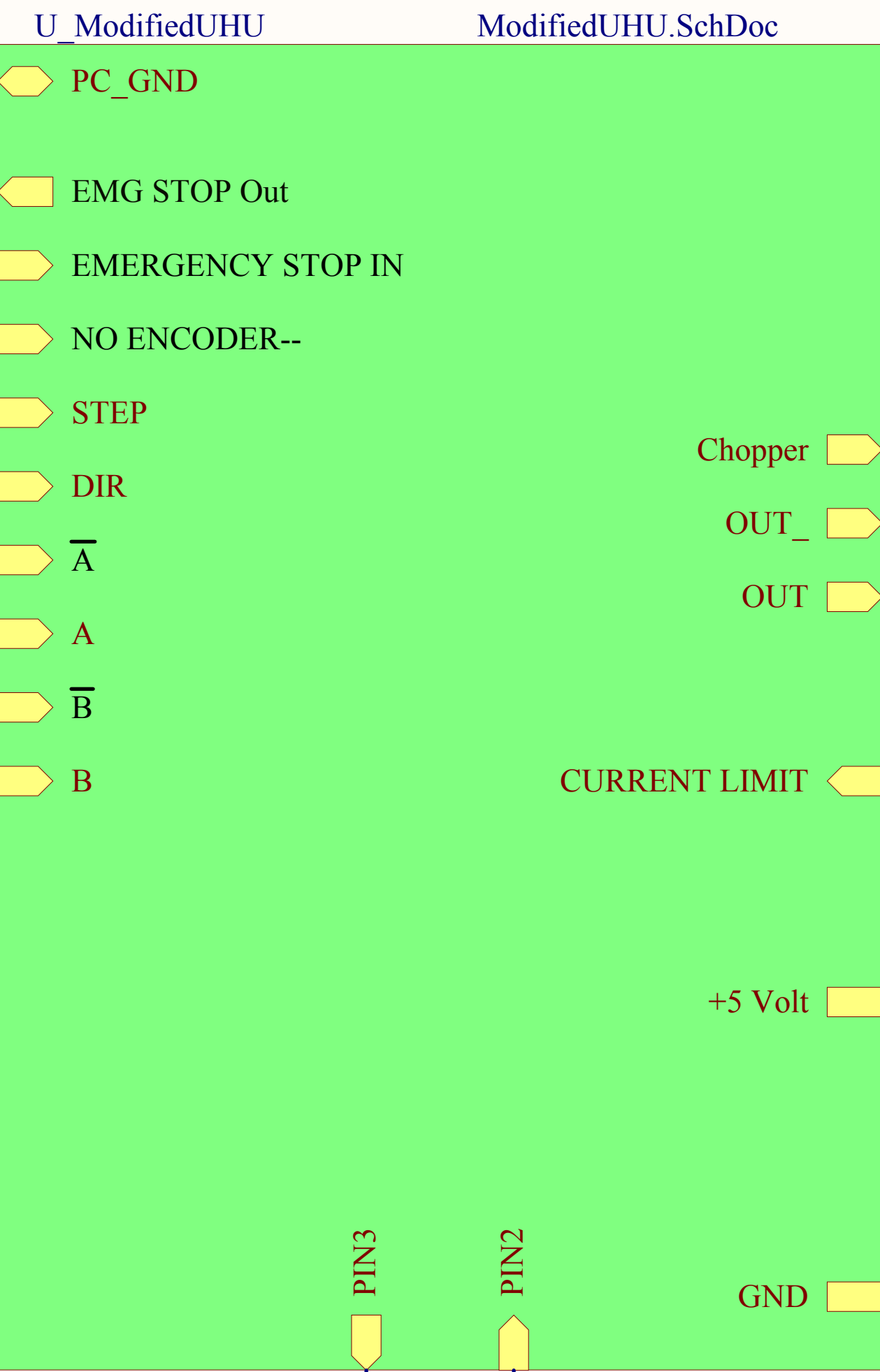
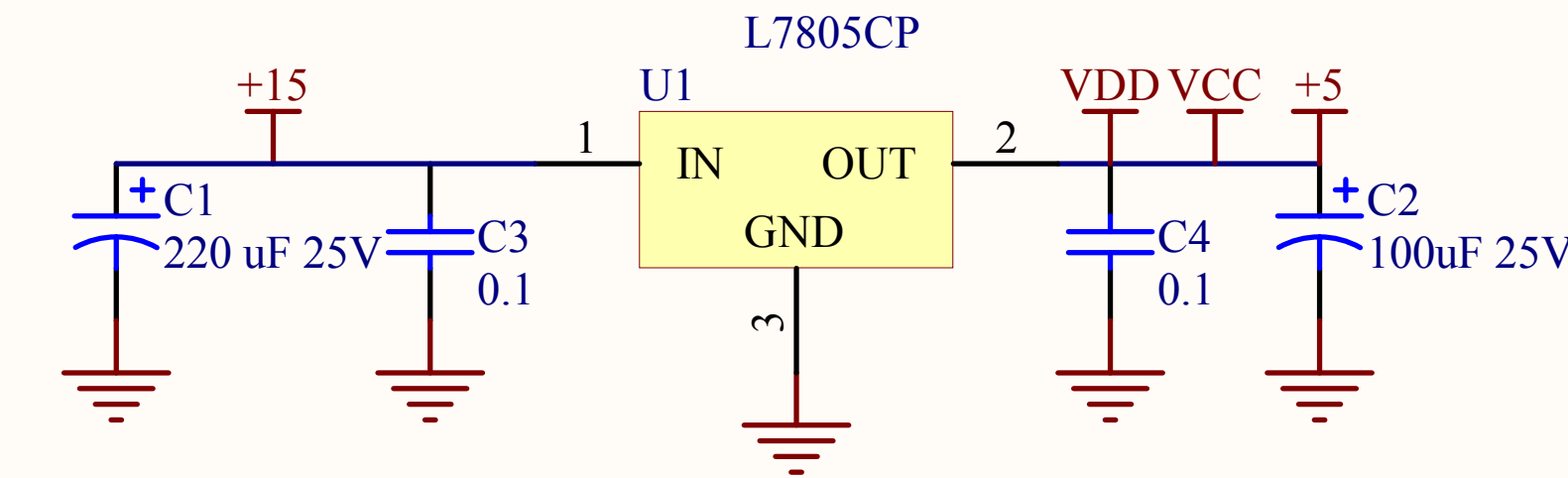
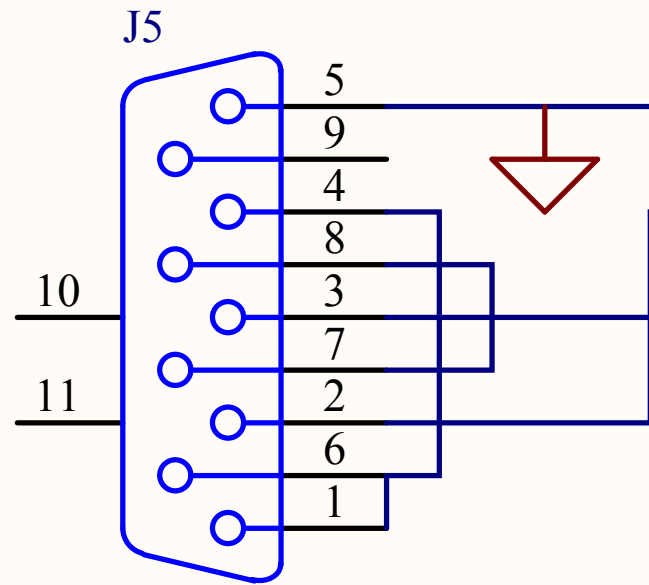
Ground (Encoder) pin 15, 14, 13, 12

Encoder Interface DB15 Female



PC_GND is a connection to pins 18-25 on the PC's parallel port, and pin 5 on the serial comm. port DB9 connector at the PC. NEVER CONNECT IT TO THE SAME GROUND AS THE BOARD'S POWER SUPPLY.

RS-232 Comm. to PC, DB9 Male



C32 capacitor (1 uF 250 volts Metalized Film) has to be soldered across C31 terminals on the copper side of the board. Be carefull not to interfere with the heat-sink.

Title			MODIFIED UHU BOARD FOR HIGH POWER SERVOS		
Size		Number		Revision	
Letter				1.0	
Date:	1/4/2008			Sheet	of
File:	C:\Program Files\...\Interface.SchDoc			Drawn By:	KREUTZ

A

B

C

D

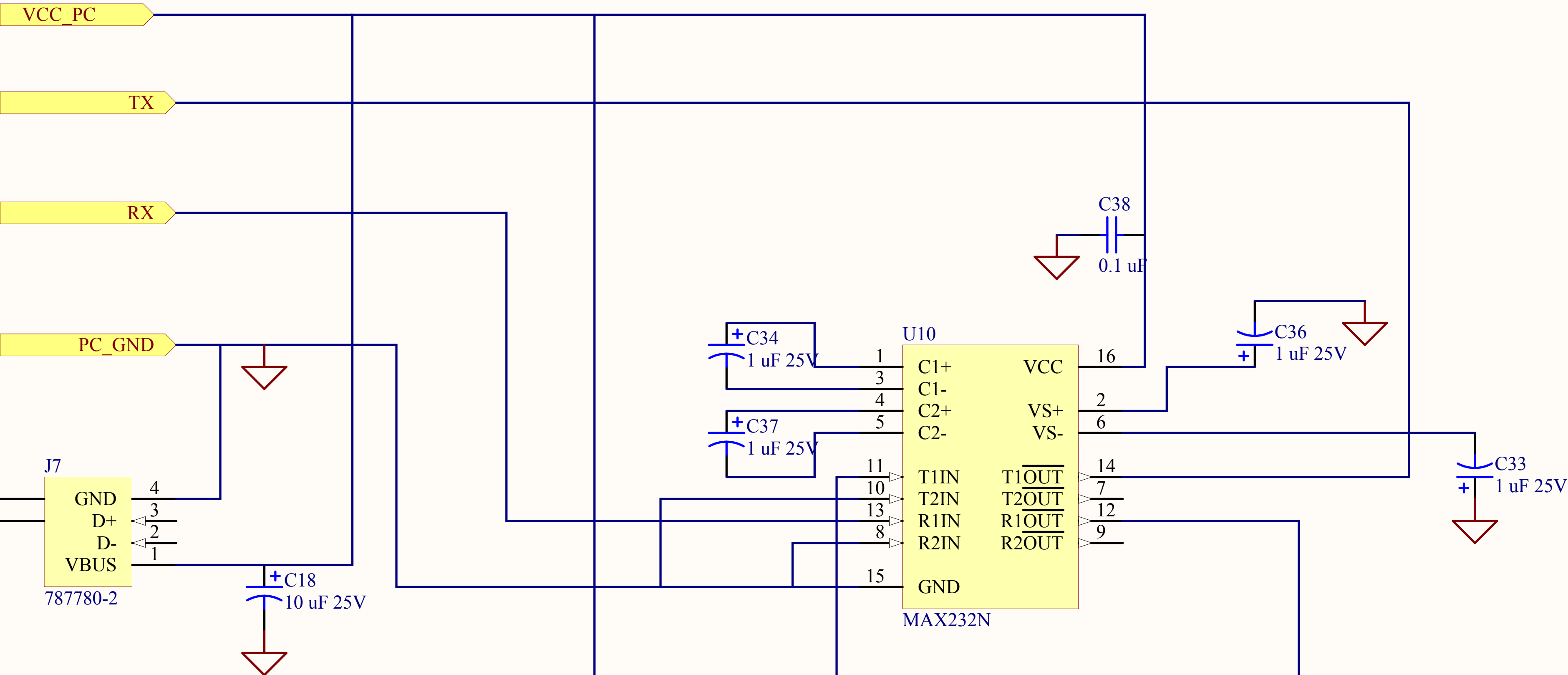
A

B

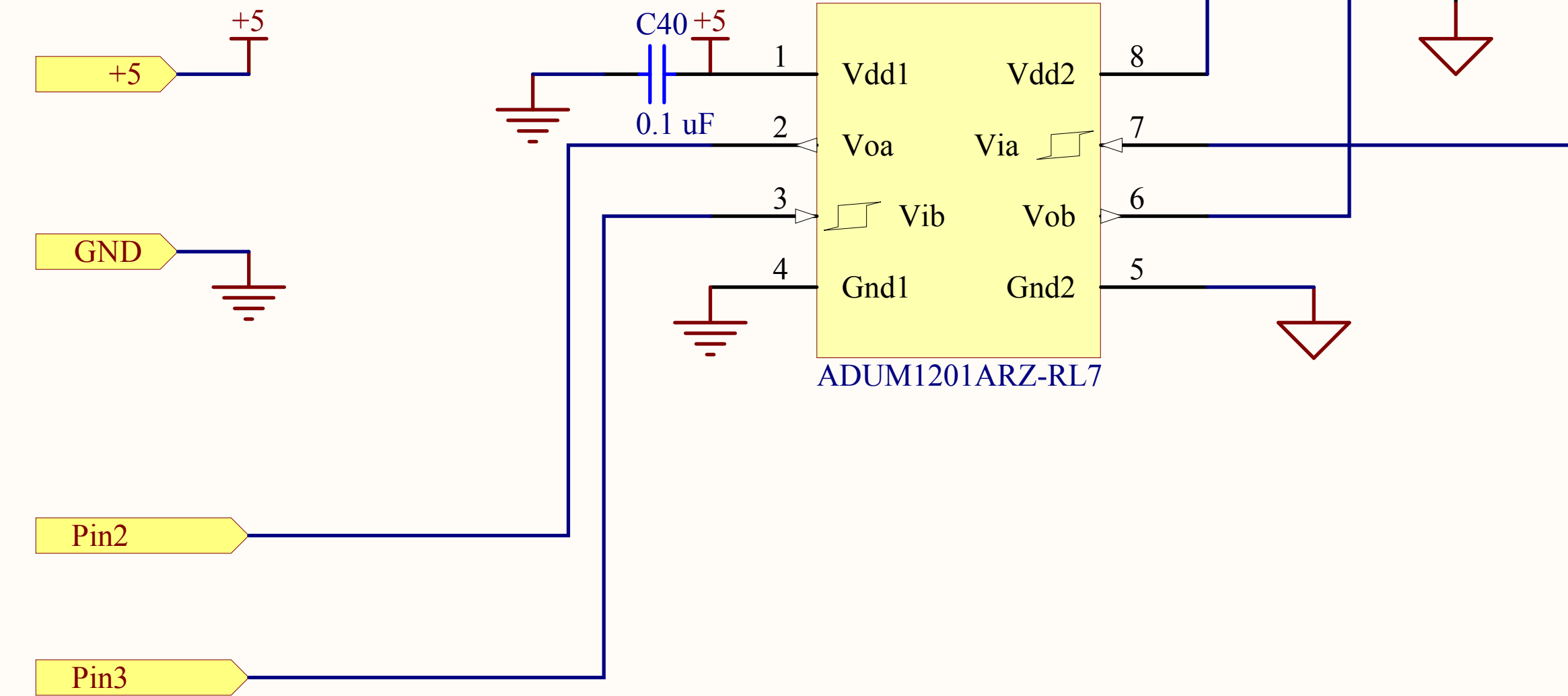
C

D

PC side



Board Side



Title			Opto-isolated Rs232 Interface to PC	
Size	Number		Revision	
Letter			1.0	
Date:	1/4/2008		Sheet of	
File:	C:\Program Files\...\Isolated RS232 Interface.SchDoc		Drawn By:	Kreutz

A

B

C

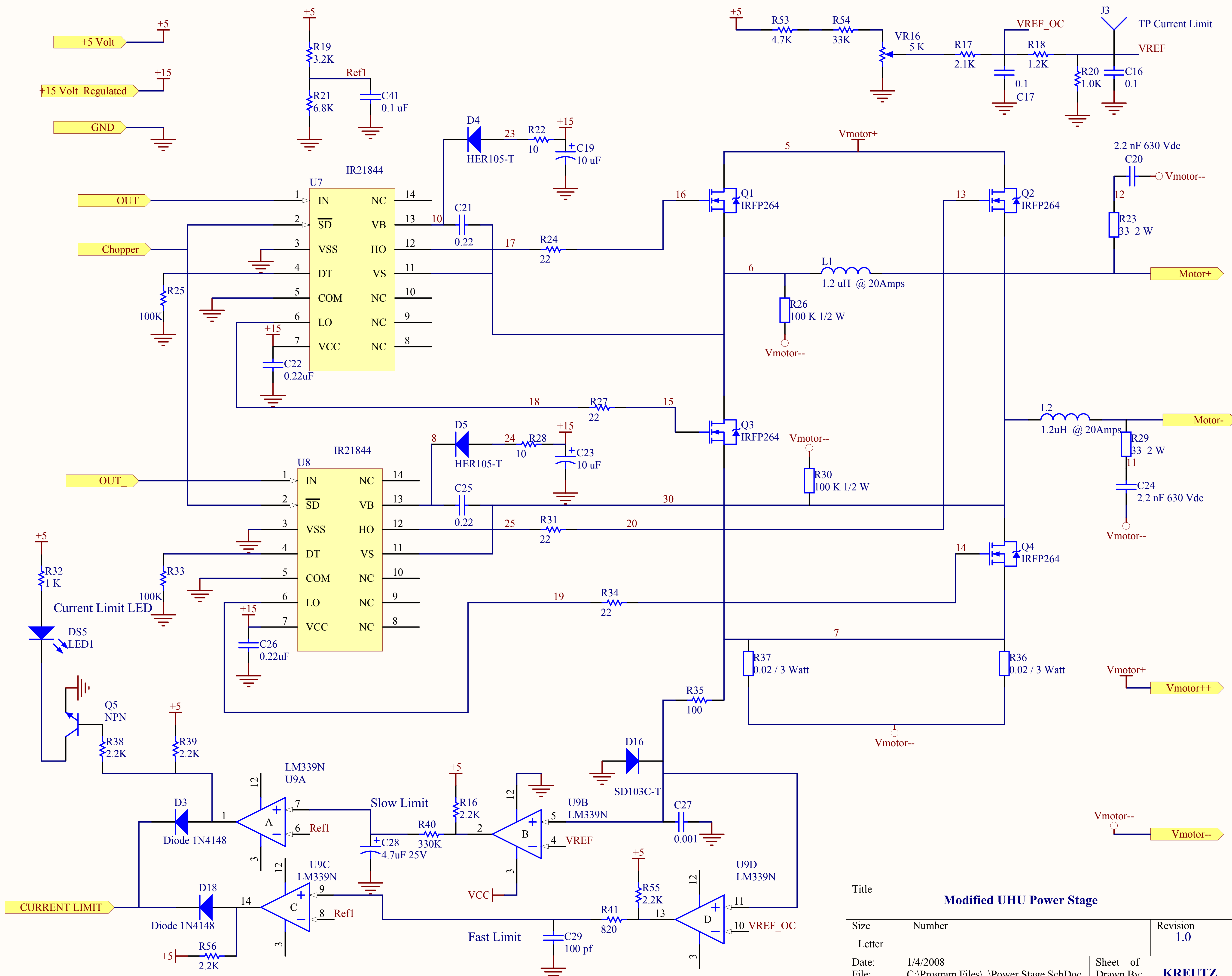
D

A

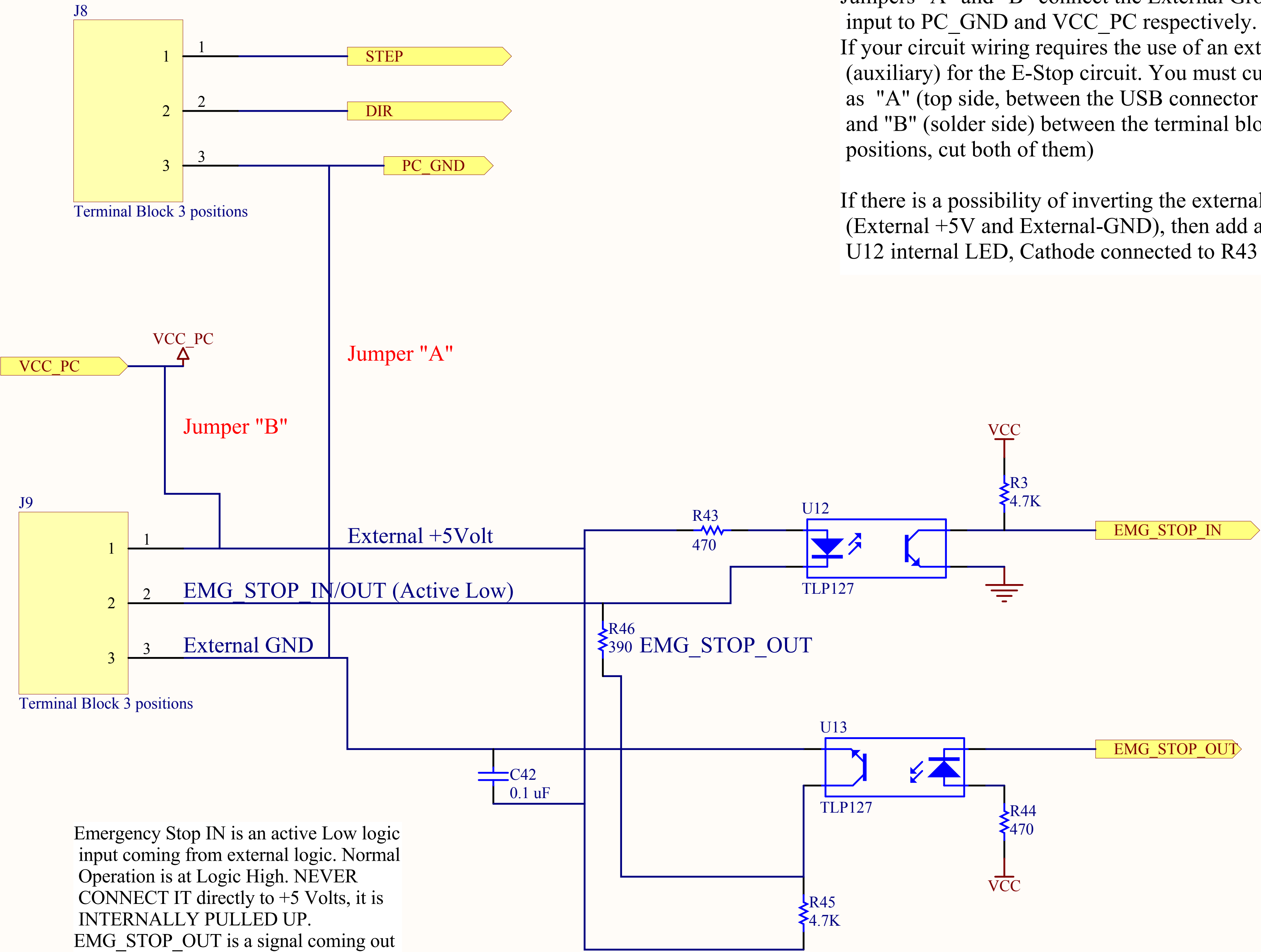
B

C

D



Title			Modified UHU Power Stage	
Size	Number		Revision	
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Date:	1/4/2008		Sheet	of
File:	C:\Program Files\...\Power Stage.SchDoc		Drawn By:	KREUTZ

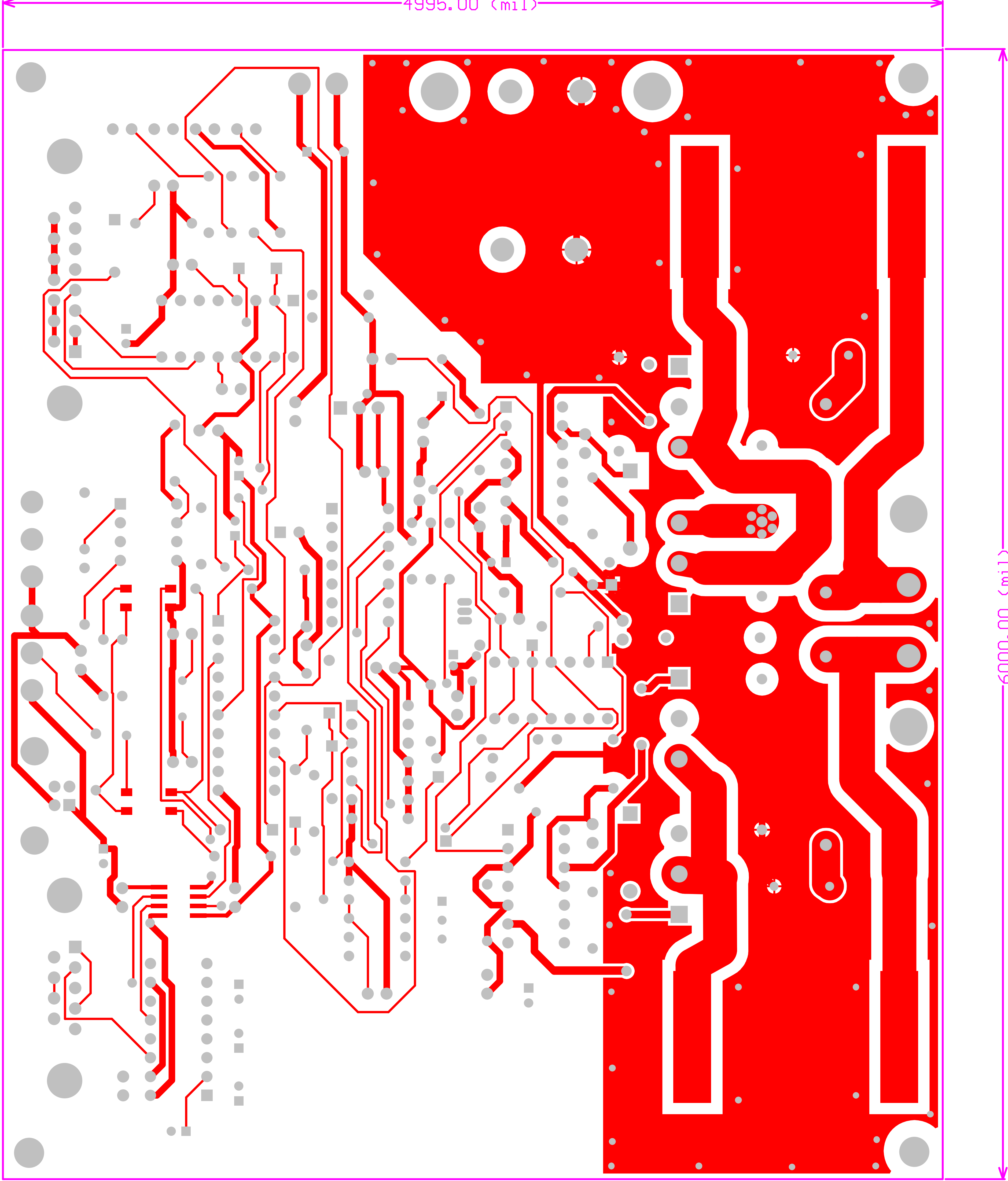


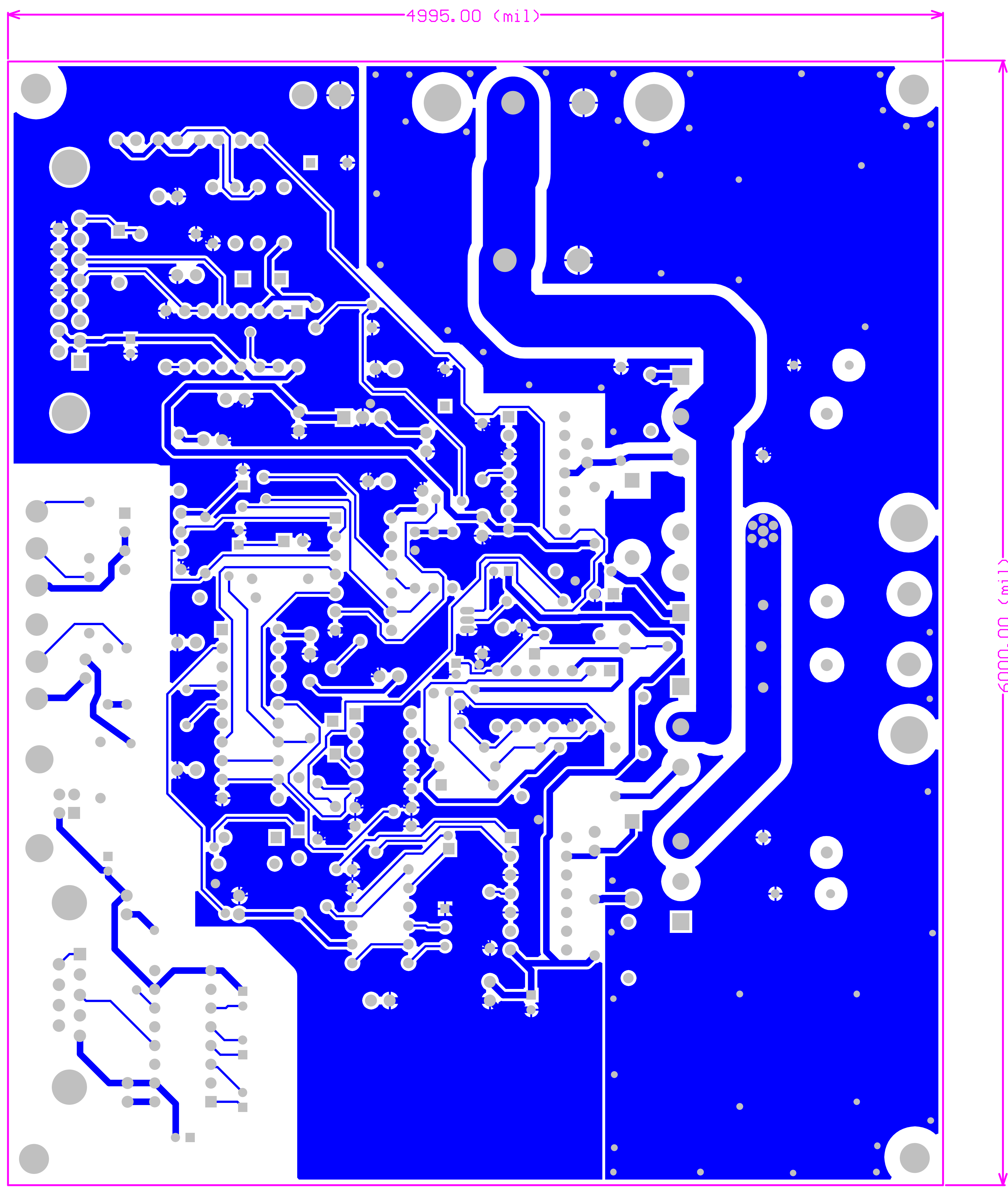
Emergency Stop IN is an active Low logic input coming from external logic. Normal Operation is at Logic High. NEVER CONNECT IT directly to +5 Volts, it is INTERNALLY PULLED UP.
EMG_STOP_OUT is a signal coming out from the board due to an error (Fault) in that particular drive. It is active Low and will trigger an Emergency Stop to all the boards in the wired OR chain.

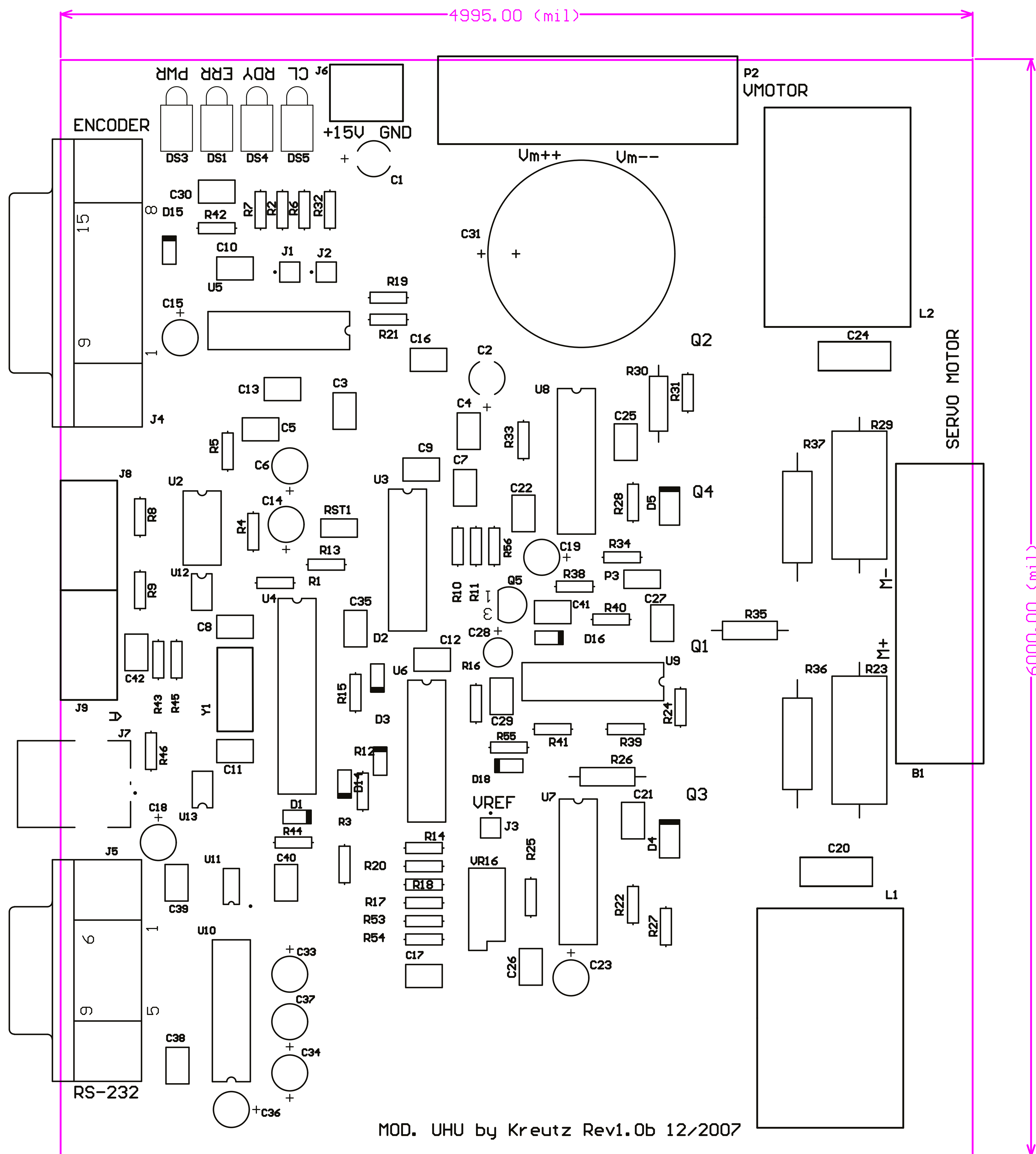
Jumpers "A" and "B" connect the External Ground and external +5V input to PC_GND and VCC_PC respectively.
If your circuit wiring requires the use of an external power supply (auxiliary) for the E-Stop circuit. You must cut the PCB traces marked as "A" (top side, between the USB connector and the terminal block), and "B" (solder side) between the terminal blocks (two different positions, cut both of them)

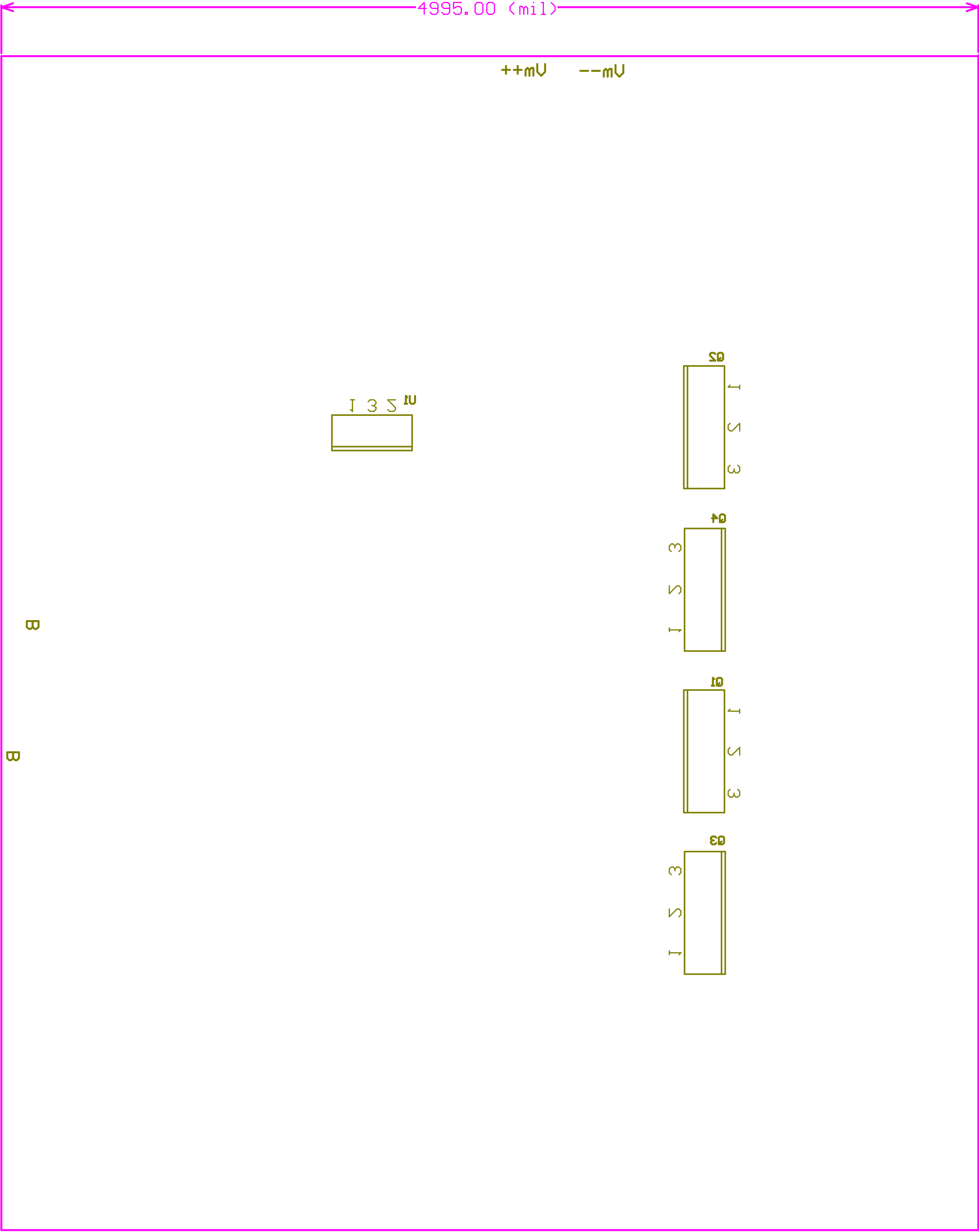
If there is a possibility of inverting the external power supply wires (External +5V and External-GND), then add a 1N4148 diode across the U12 internal LED, Cathode connected to R43 for protection.

Title			Step-Direction and Emergency Stop interface	
Size	Number		Revision	
Letter			1.0	
Date:	1/4/2008		Sheet of	
File:	C:\Program Files\...\Step-Dir and EMG-STOP		Drawn by	SchDoc





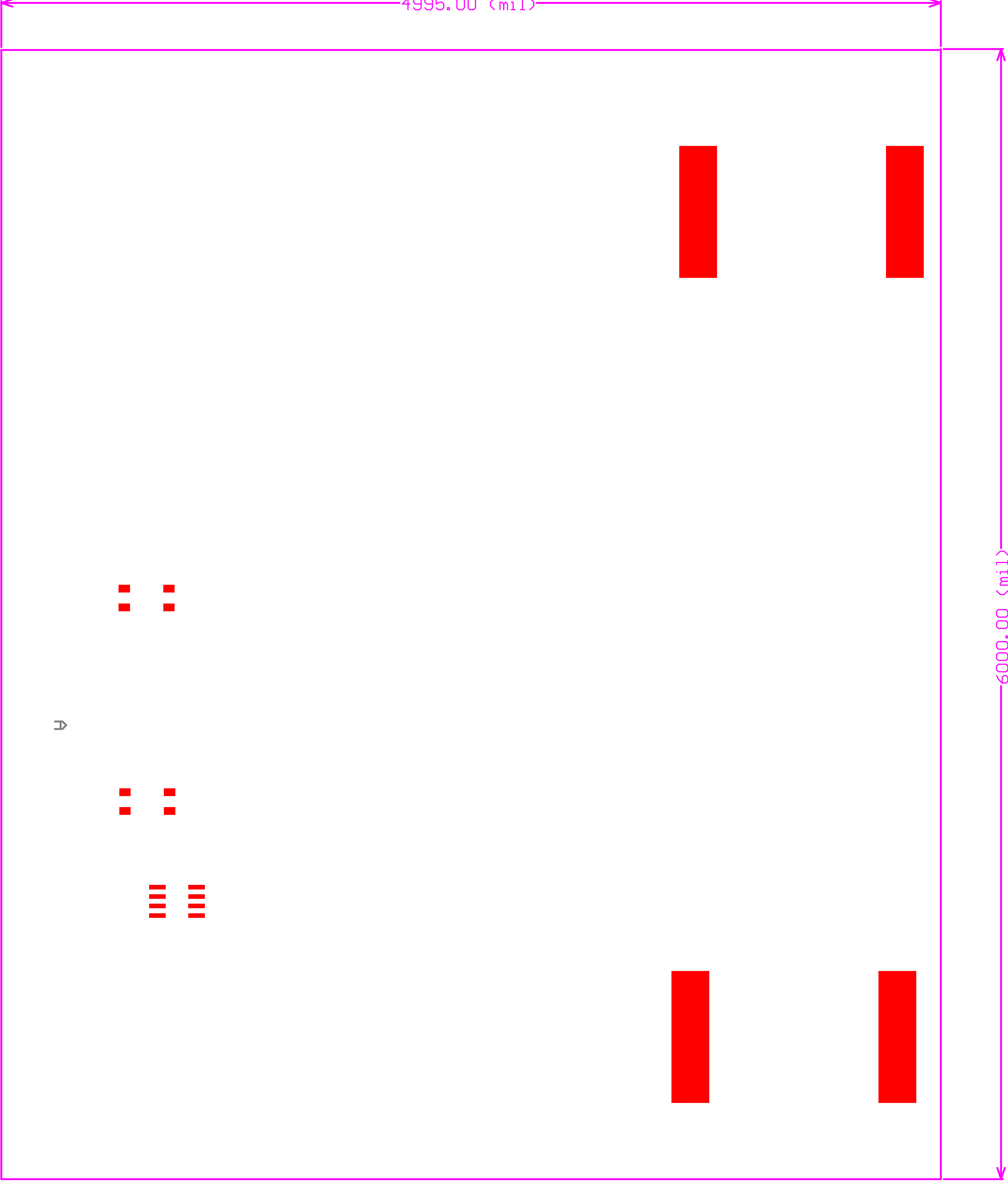


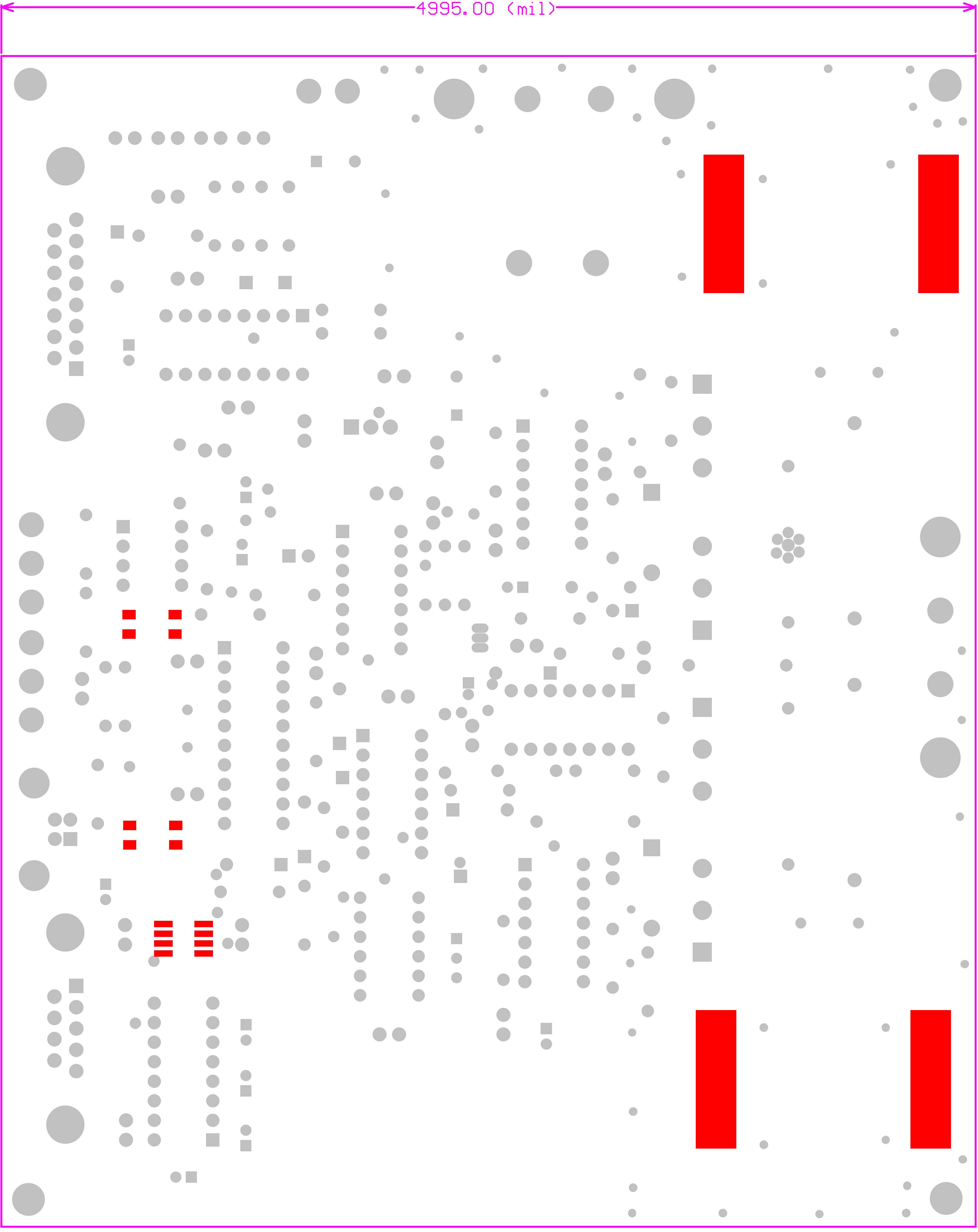


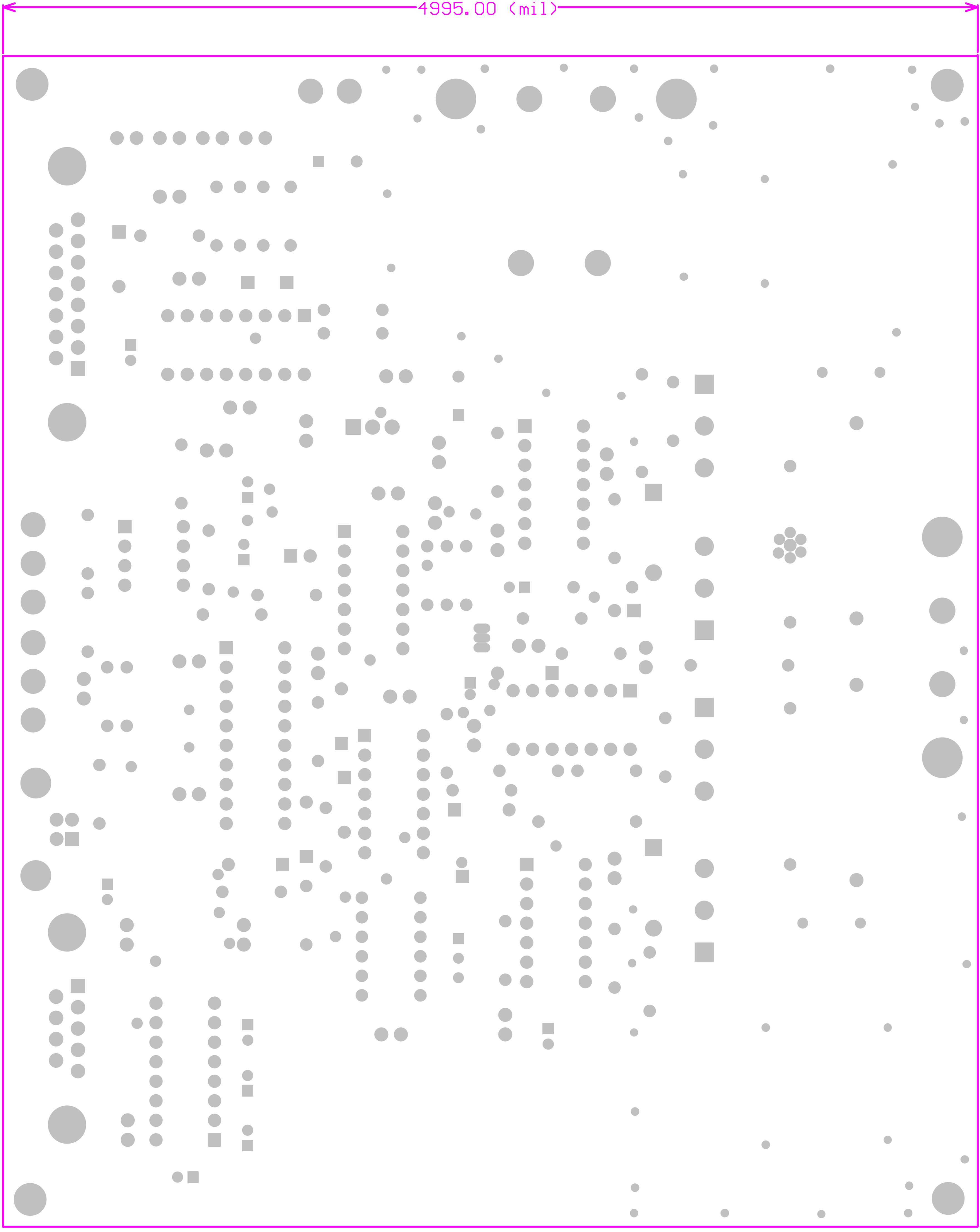


4995.00 (mil)

6000.00 (mil)







4995.00 (mil)

6000.00 (mil)

