L9110 driver chips supports DC voltages from 2.5 to 12 V, caters continuous current of 800 mA, and has a maximum peak current of 1.5 to 2 A

L9110 as single VCC for both control logic and motor driver circuits

we can run the module from a 3-V DC supply for 3-V DC motors and from 5 V for 5-V DC motors

IA = PWM (or not) for speed control

IB = direction (forward / reverse) control.

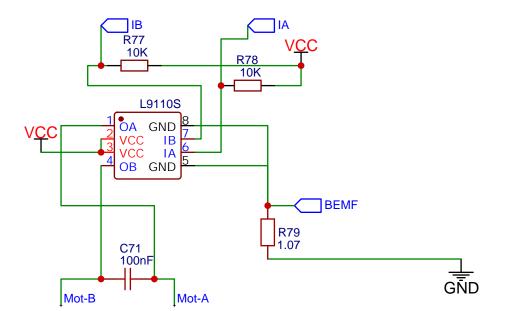
BEMF = back electromotive force (used as endstop sensor)

VCC = 3.3V or 5V (must be the same as logic controller)

L9110 as single VCC for both control logic and motor driver circuits

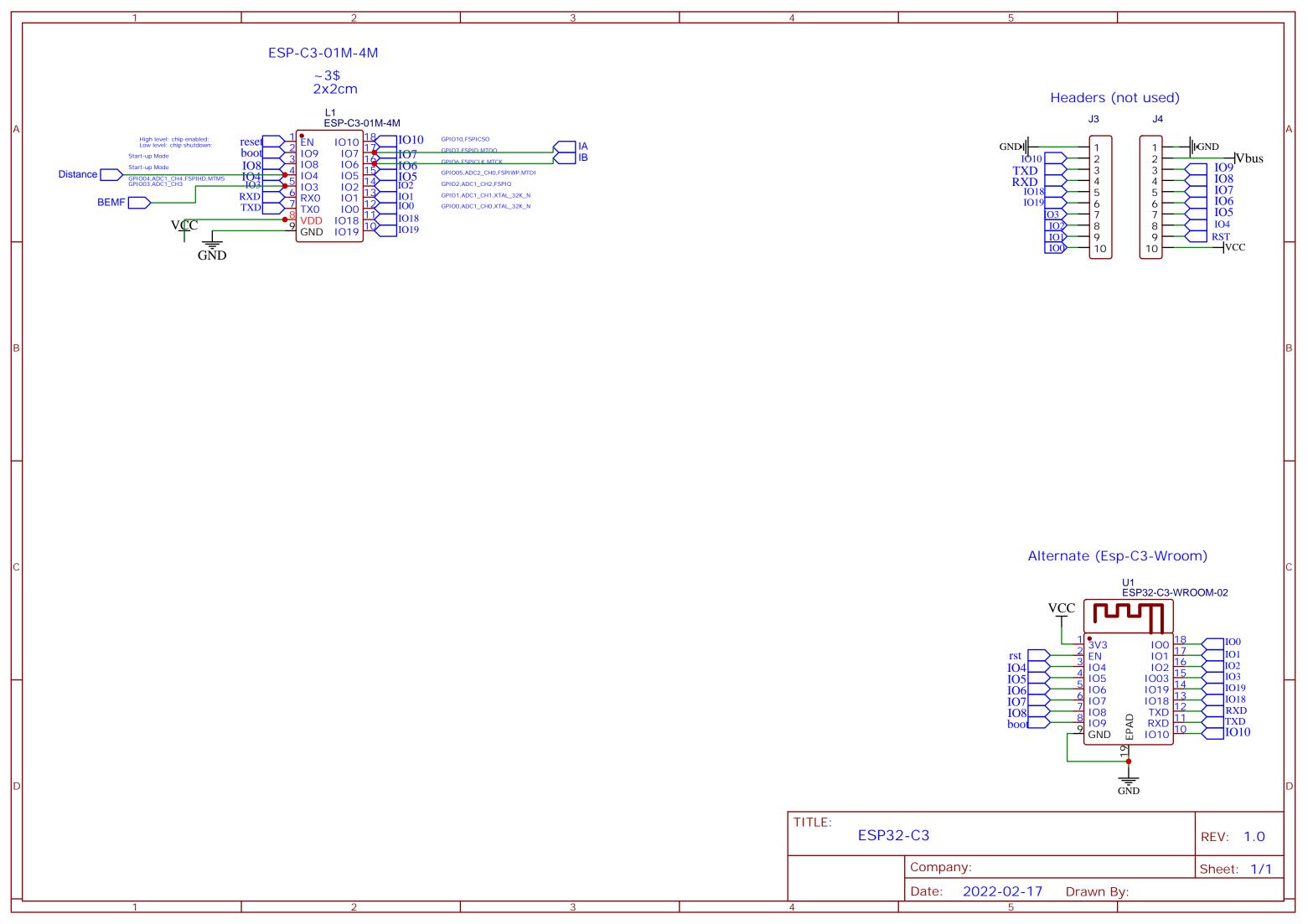
So we can run the module from 3.3V controller (ESP) for 3-V DC motors and from 5 V (Arduino) for 5-V DC motors

Caters continuous current of 800 mA, and has a maximum peak current of 1.5 to 2 A



TITLE:	L9110	s motor co	ontroller	REV:	1.0
		Company:	Your Company	Sheet:	1/1

Date: 2022-01-27 Drawn By: nliaudat

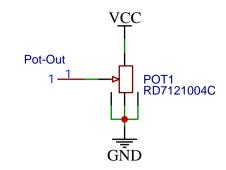


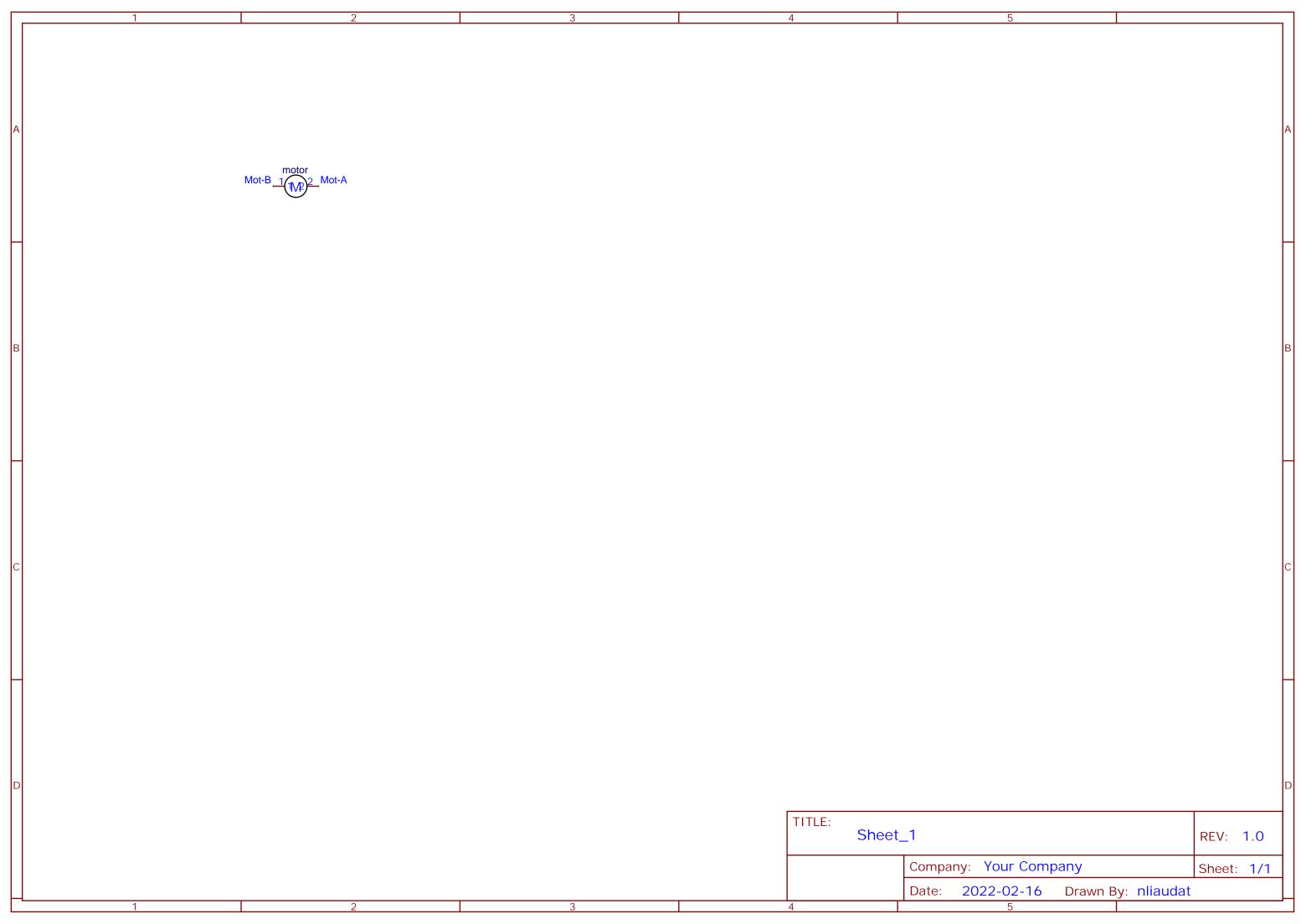
https://www.hackster.io/adamb314/super-accurate-300-robot-arm-15f1d2 https://www.oshwhub.com/XKLS-Team/ITR8307-3a8f17fe54bd496f923a885928c7e8d6 https://tams-www.informatik.uni-hamburg.de/publications/2017/3D-Printed%20Low-Cost%20Modular%20Force%20Sensors.pdf https://programmer.help/blogs/reflective-infrared-photocell-itr8307.html https://ieeexplore.ieee.org/abstract/document/9133543 Reflective optical interrupter 1-5mm distance sensor 2mm height ~0.15\$ Fig.1 Relative Collector Current vs. Distance between Sensor and Al Evaporation Galss Vce=2V Ta=25*c ITR8307/L24/TR8(TS) Distance between Sensor and Al Evaporation Galss d(mm) ITR1 ITR8307/S17/TR8(B)

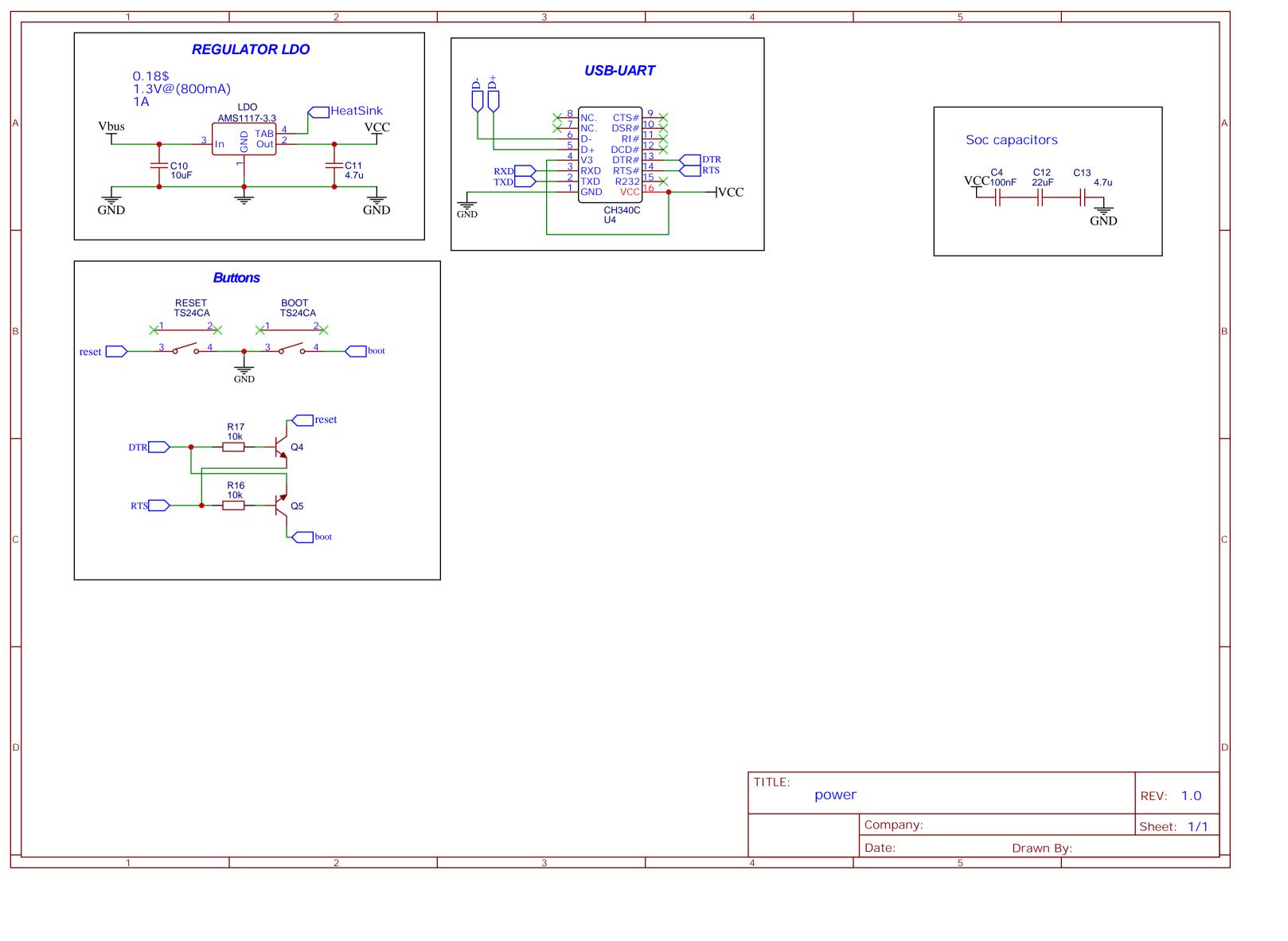
ITLE:							
	Sheet_	_1				REV:	1.0
		Compar	ny: Your Comp	any		Sheet:	1/1
		Date:	2022-01-25	Drawn By:	nliaudat		

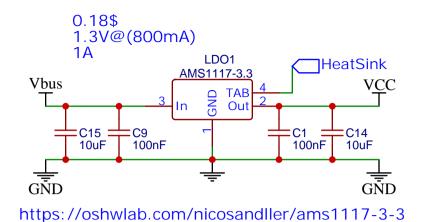
Kodak neutral card		Plastics, glass
White side (reference medium)	100%	White PVC
Gray side	20%	Gray PVC
Paper		Blue, green, yellow, red PVC
Typewriting paper	94%	White polyethylene
Drawing card, white (Schoeller Durex)	100%	White polystyrene
Card, light gray	67%	Gray partinax
Envelope (beige)	100%	Fiber glass board material
Packing card (light brown)	84%	Without copper coating
Newspaper paper	97%	With copper coating on the reverse
Pergament paper	30-42%	side
Black on white typewriting paper		Glass, 1 mm thick
Drawing ink (Higgins, Pelikan, Rotring)	4-6%	Plexiglass, 1 mm thick
Foil ink (Rotring)	50%	Metals
Fiber-tip pen (Edding 400)	10%	Aluminum, bright
Fiber-tip pen, black (Stabilo)	76%	Aluminum, black anodized
Photocopy	7%	Cast aluminum, matt
Plotter pen		Copper, matt (not oxidized)
HP fiber-tip pen (0.3 mm)	84%	Brass, bright
Black 24 needle printer (EPSON 2		Gold plating, matt
LQ-500)		Textiles
Ink (Pelikan) 100		White cotton
Pencil, HB 26%		Black velvet

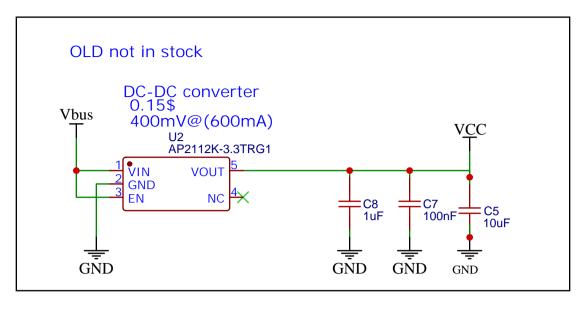


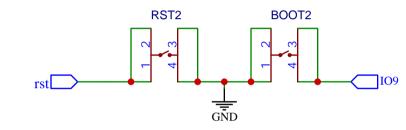


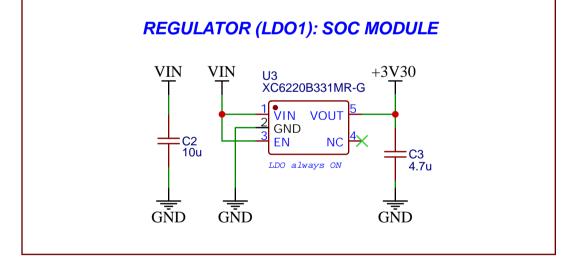


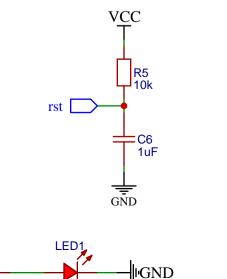


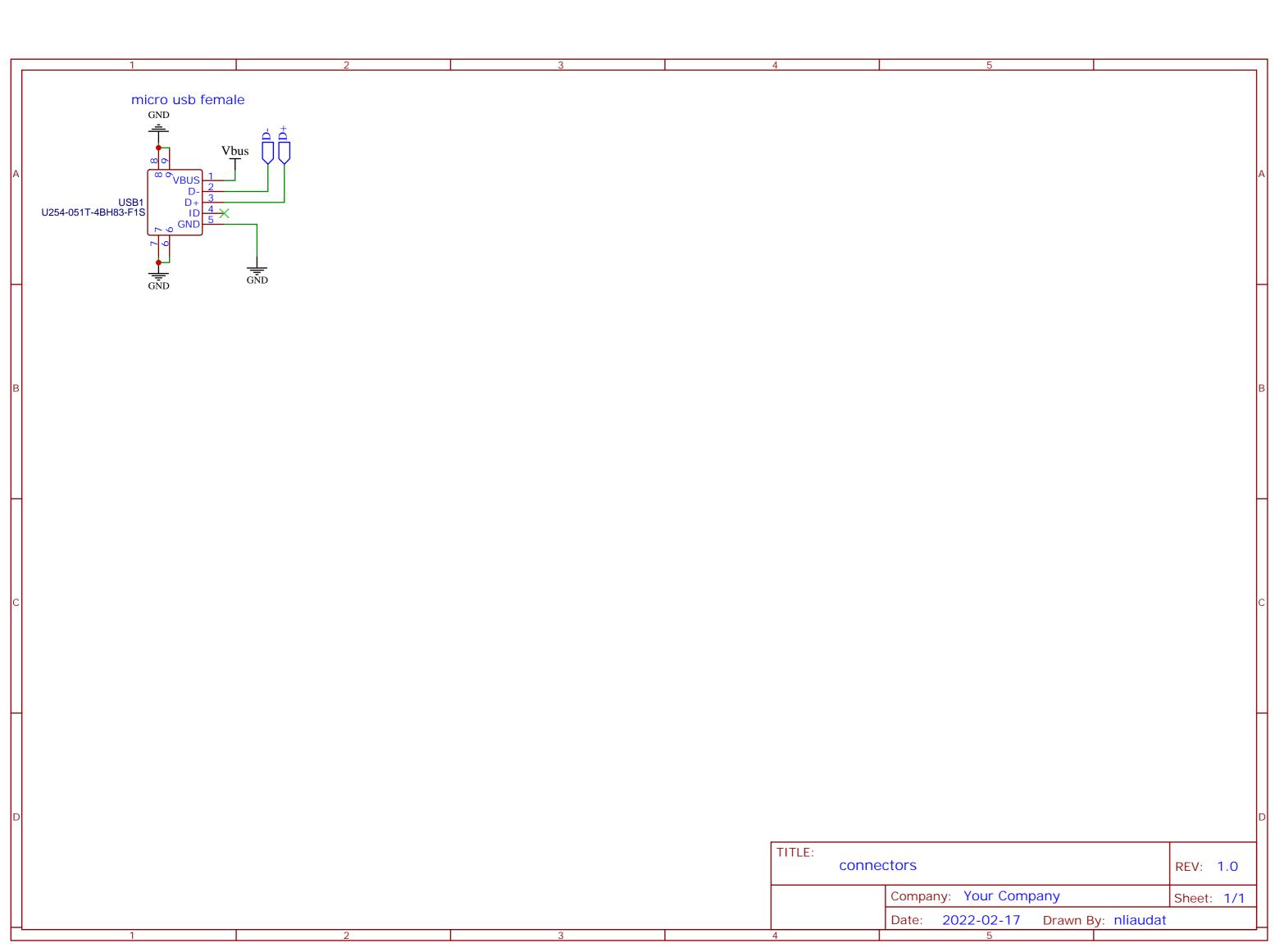


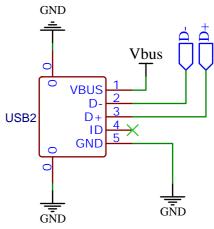












Board to Board connectors

