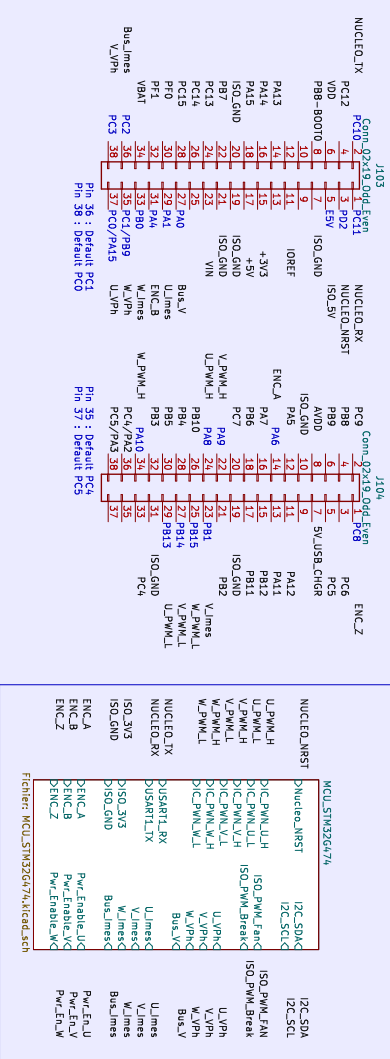
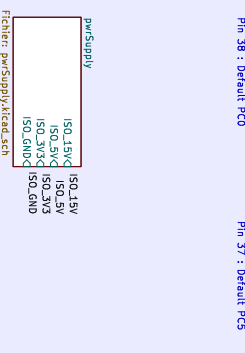


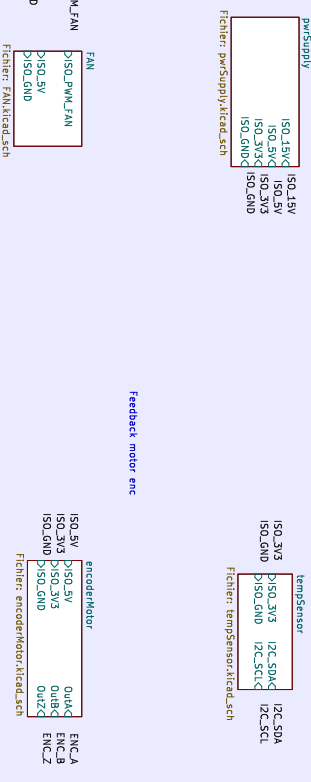
MCU Side

NUCLEO for student programming
NUCLEO-G474RE
Change Jumper JP5 to 53V
Nucleo supplied by ISO_5V

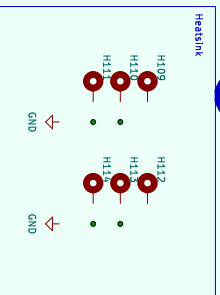
STIM32G474RET6 UC for signals analyse and protection Buttons, leds, screen and rotary encoder connectors

ISO_3V3
ISO_GND

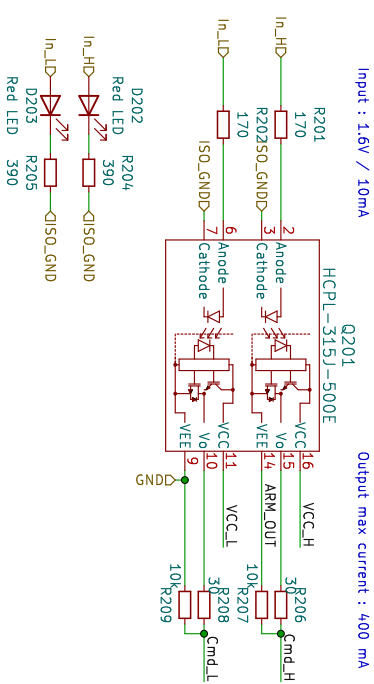
CN75A



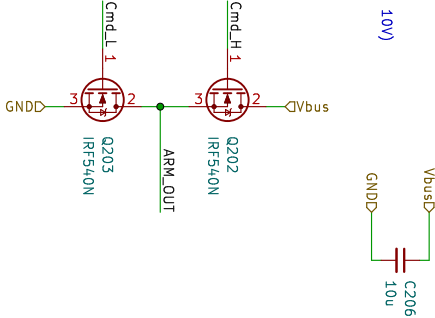
link



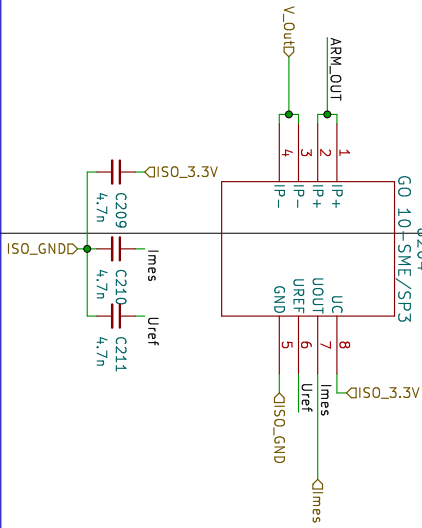
Optocoupleur / Driver



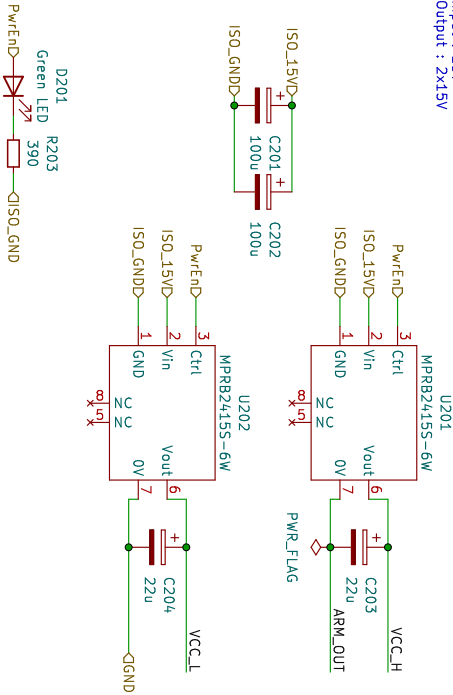
Mosfet
Vgs (5V -> 10V)



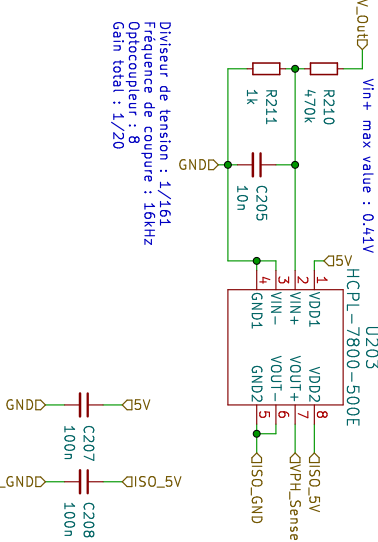
Hall current



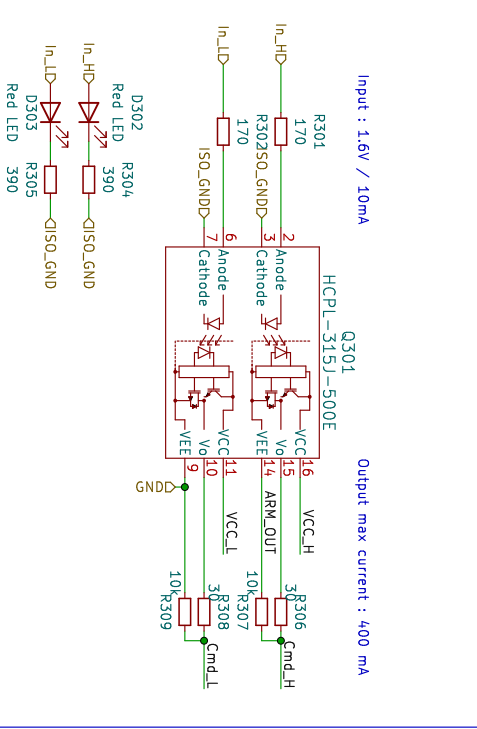
Isolated Power Supply
Input : 15V
Output : 2x1.5V



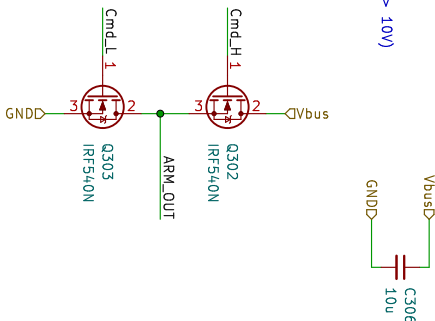
Voltage Phase Sense
5V, 16mA



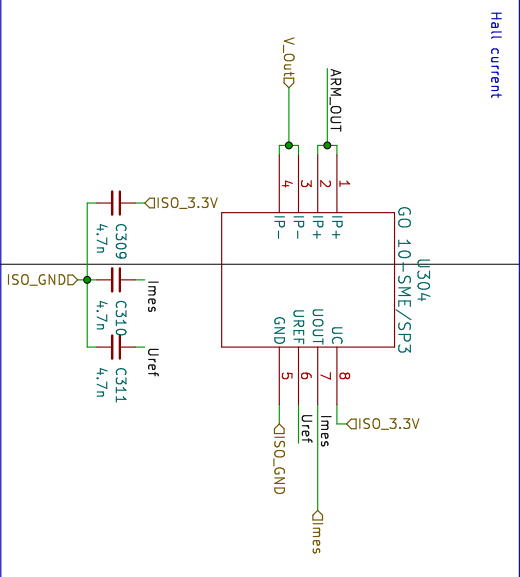
Optocoupleur / Driver



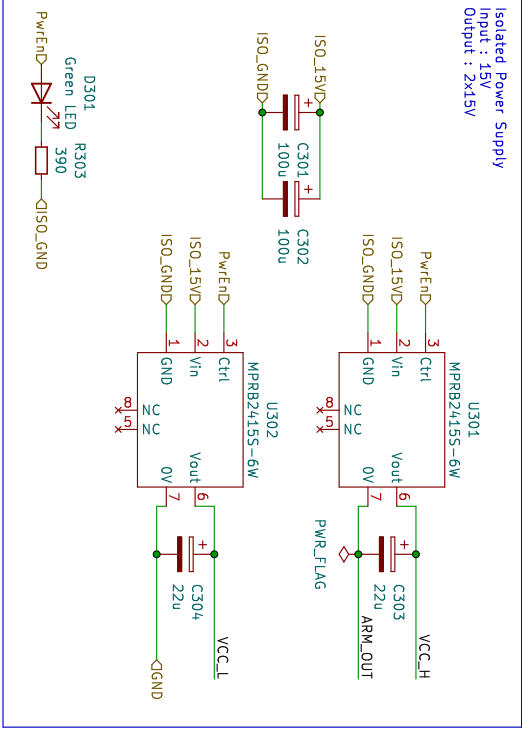
Mosfet
Vgs (5V -> 10V)



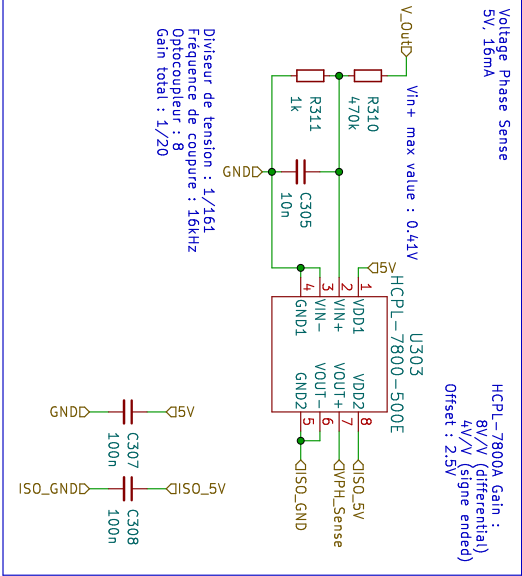
Hall current



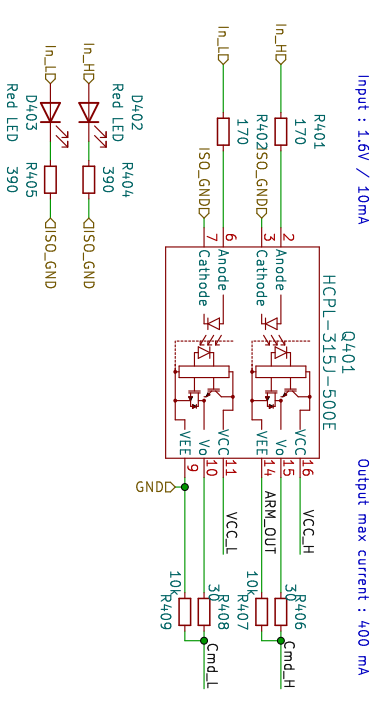
Isolated Power Supply
Input : 15V
Output : 2x1.5V



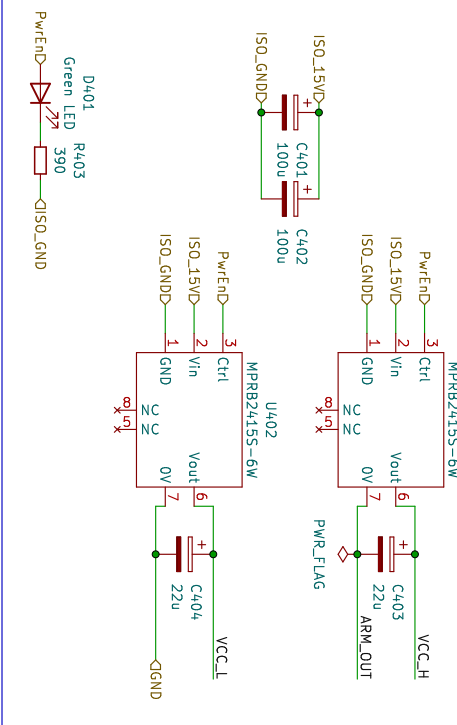
Voltage Phase Sense
5V, 16mA



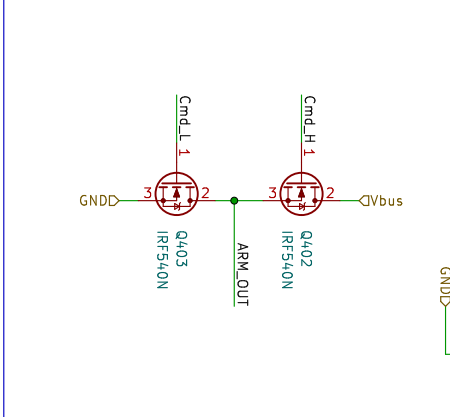
Optocoupleur / Driver



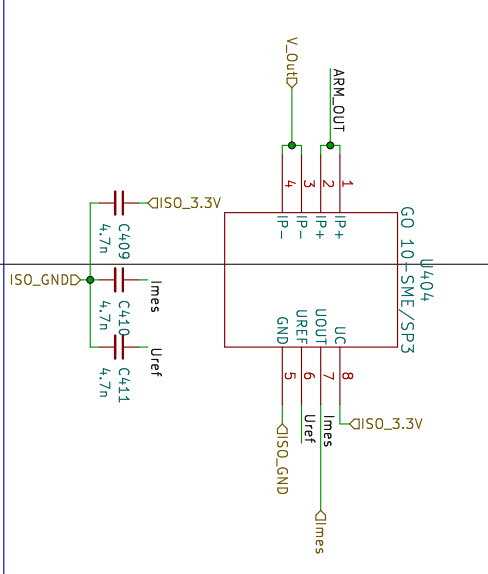
Isolated Power Supply



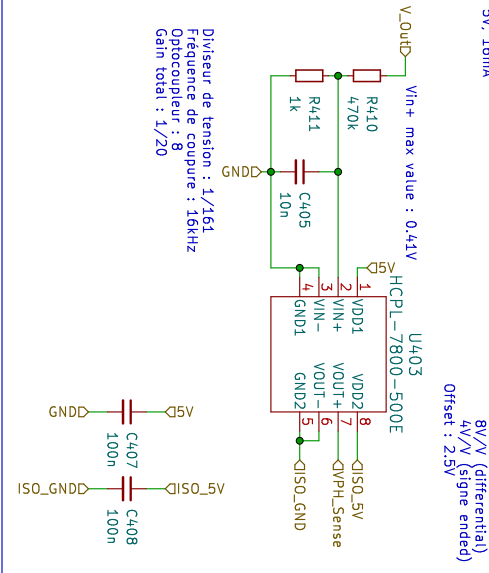
Mosfet

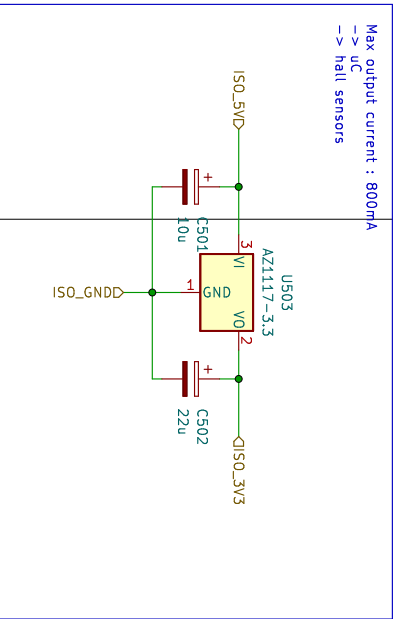
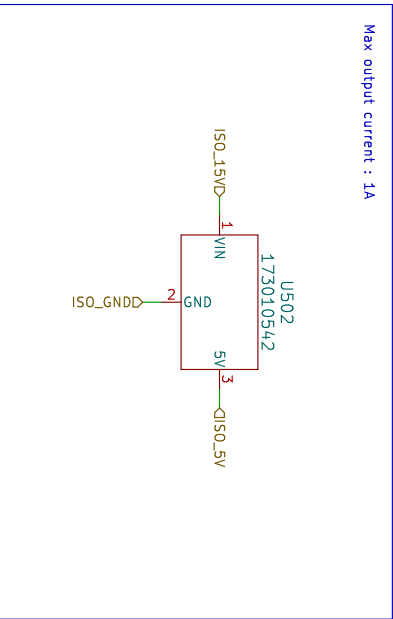
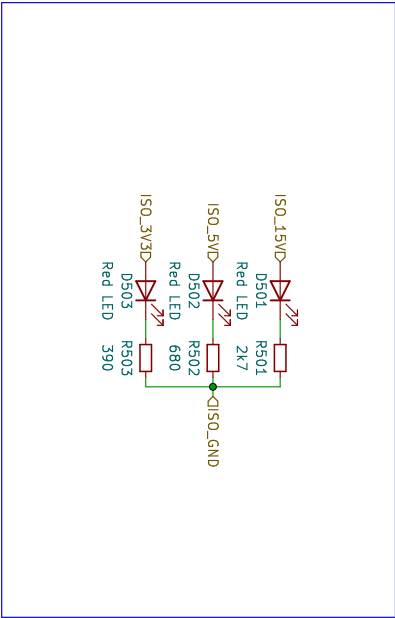
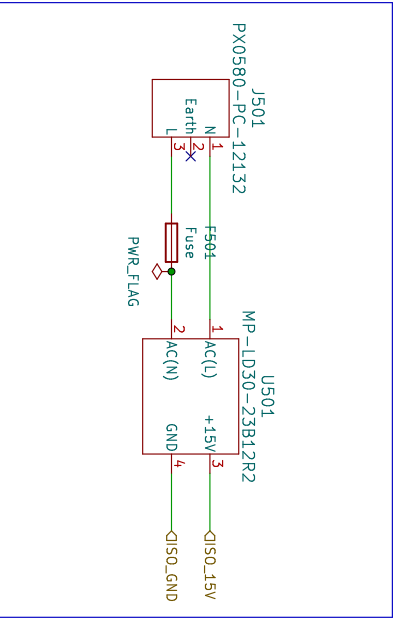


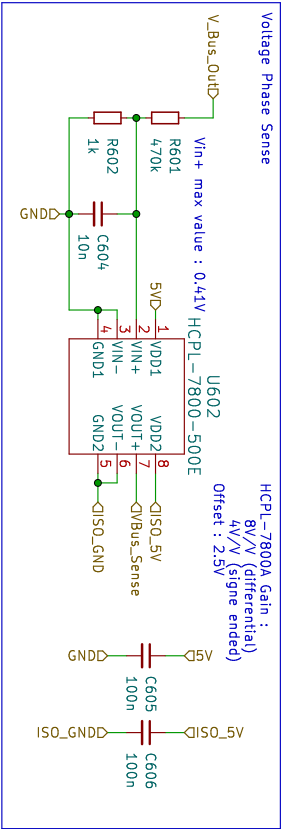
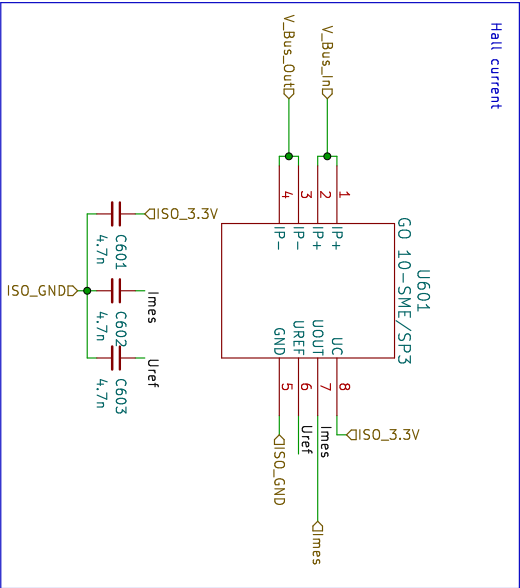
Hall current



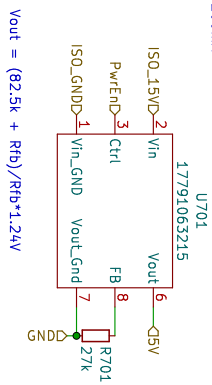
Voltage Phase Sense

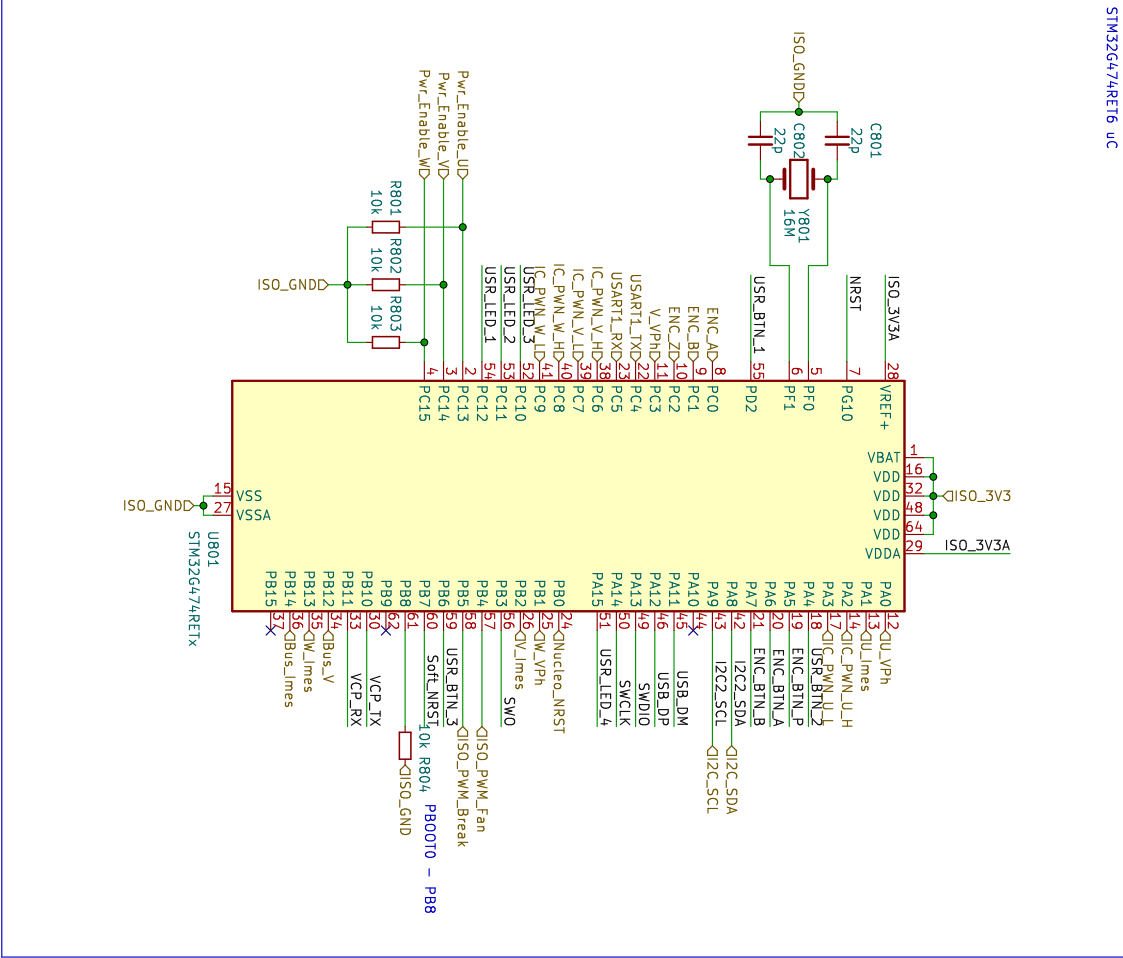




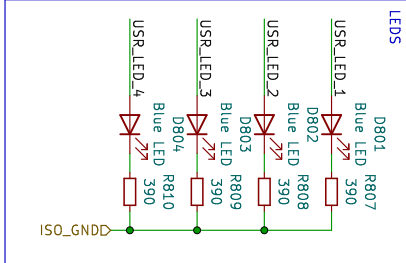
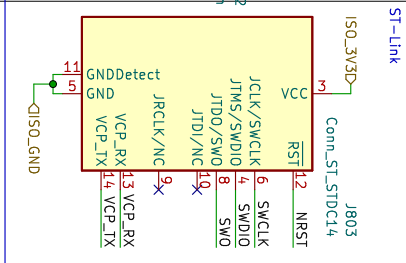
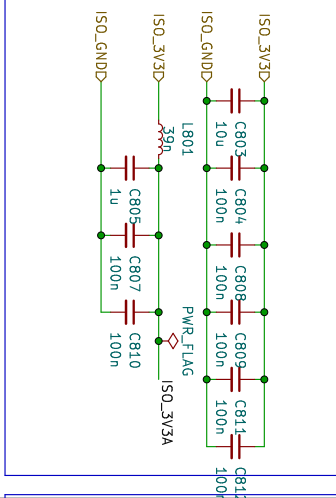


Isolated power Supply
5V / 200mA

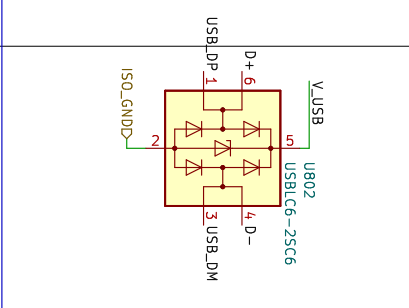
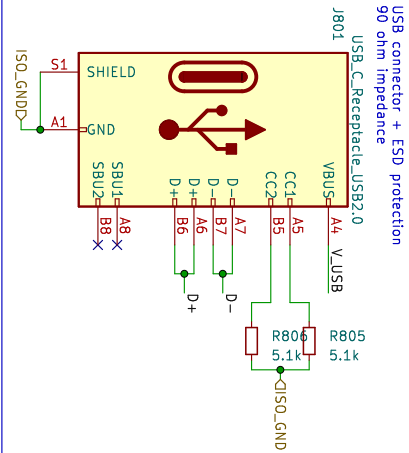




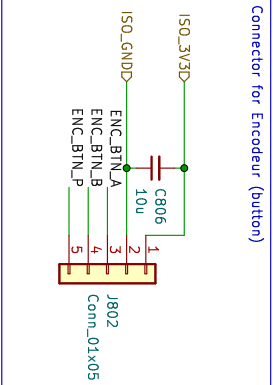
Bypass capacitors 100nF as close to STM32 VDD as possible 10uF/1uF just next to 100nF 3V3A for VDDA and Vref



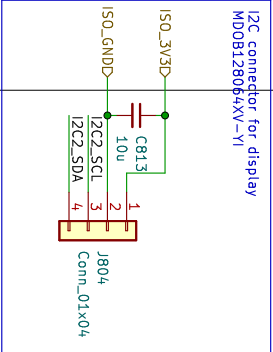
USB connector + ESD protection 90 ohm impedance



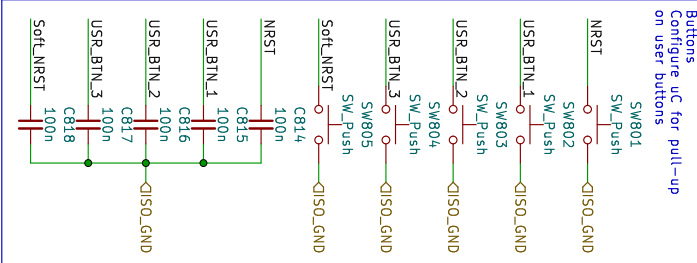
Connector for Encoder (button)

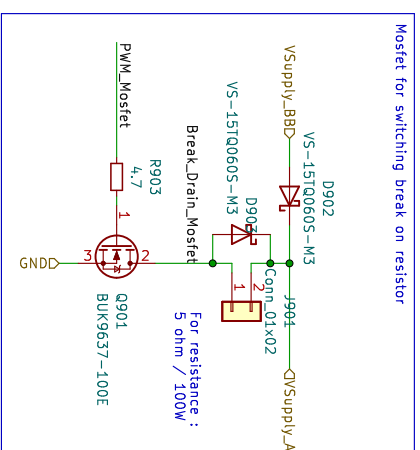
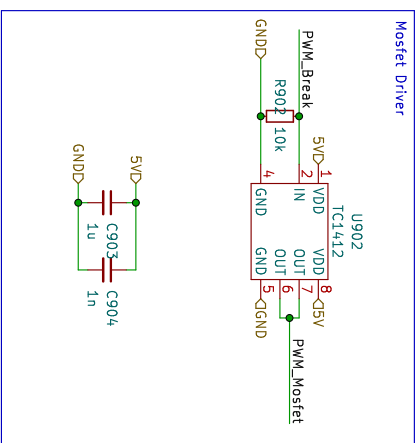
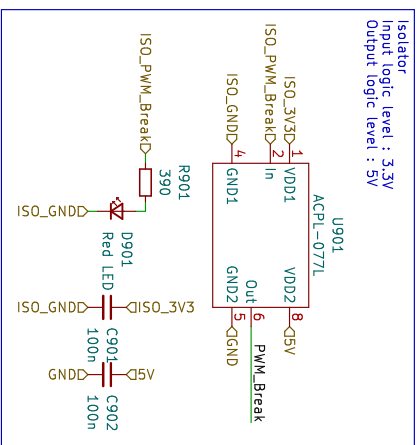


I2C connector for display MDO8128064XV-Y1

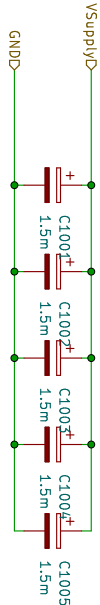


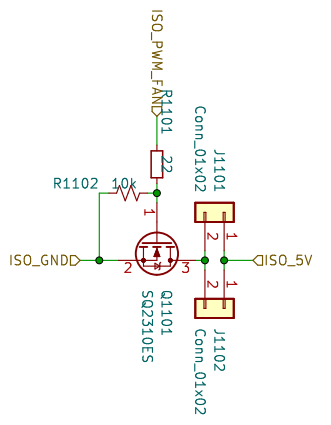
Buttons Configure uC for pull-up on user buttons

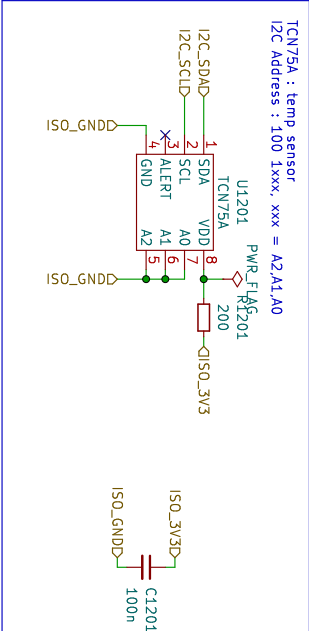


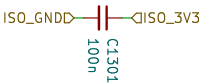
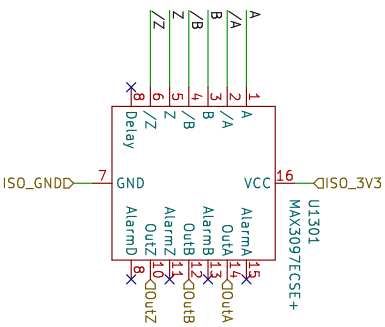
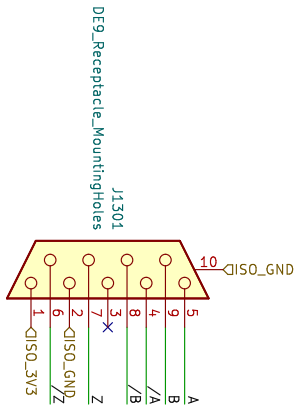


Wurth Capacitor : 861011086027
1.5mF / 200V









VCC_Enc

ISO_5V/D

