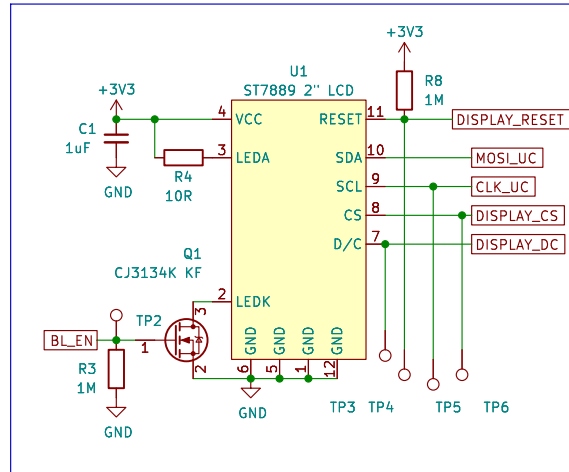
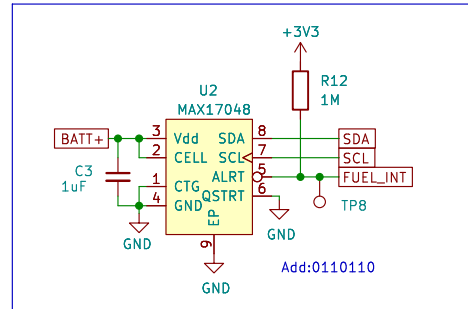


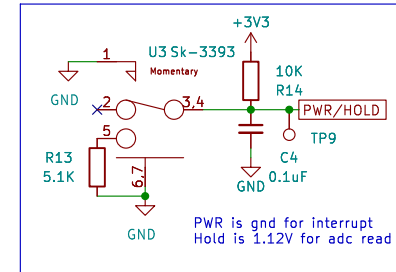
## 2" IPS LCD



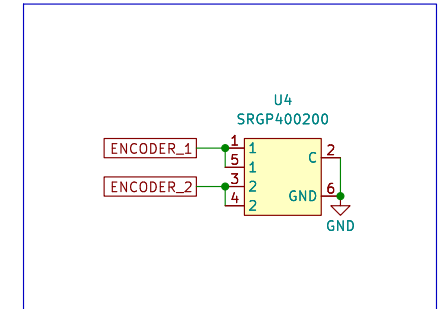
## Fuel gauge



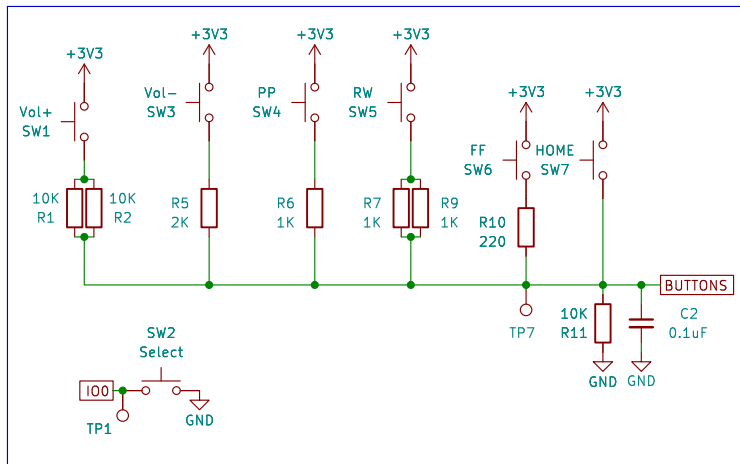
## Hold/Power switch



## Encoder



## Buttons



Main Chip



File: mcu.kicad\_sch

PSU



File: psu.kicad\_sch

USB Stuff



File: usb\_stuff.kicad\_sch

Codec



File: codec.kicad\_sch

Sheet: /  
File: Music32v3.kicad\_sch

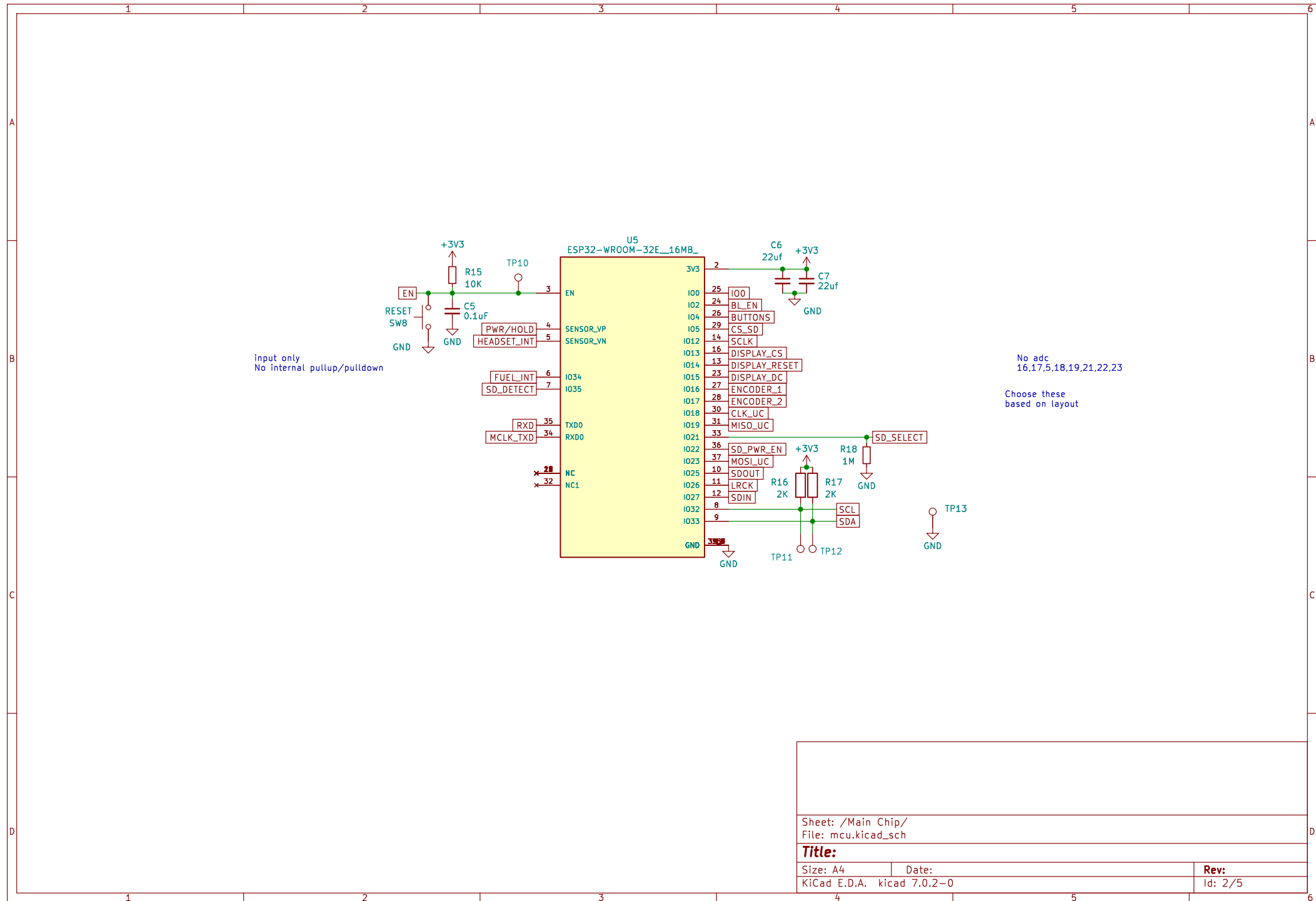
**Title:**

Size: A4  
KiCad E.D.A. kicad 7.0.2-0

Date:

**Rev:**

Id: 1/5



[illegible]

The diagram shows the XC6210B332MR voltage regulator circuit. The regulator is represented by a yellow box with the following pins and connections:

- Pin 1 (VIN):** Connected to the input voltage source.
- Pin 2 (GND):** Connected to ground.
- Pin 3 (CE):** Connected to ground.
- Pin 4 (GND):** Connected to ground.
- Pin 5 (VOUT):** Connected to the output voltage source.
- Pin 6 (GND):** Connected to ground.

Additional components and connections include:

- C11 (4.7uF):** Input decoupling capacitor connected to VIN and GND.
- C15 (22uF):** Output decoupling capacitor connected to VOUT and GND.
- C16 (22uF):** Output decoupling capacitor connected to VOUT and GND.
- TP20:** Test point located between C15 and C16.
- +3V3:** Output voltage source.

U10  
TP4057

VBUS

C17  
1uF

R24  
2K

D2

D3

R25  
2K

4 VCC

1 CHRG

5 STDBY

2 GND

6 PROG

3 BAT

C18  
1uF

BATT+

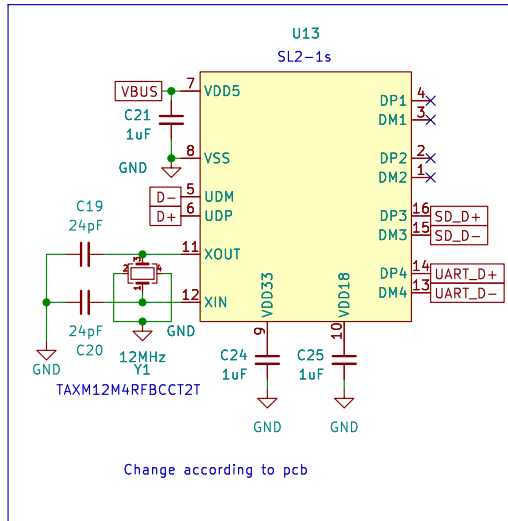
R26  
2K

400mA charge current

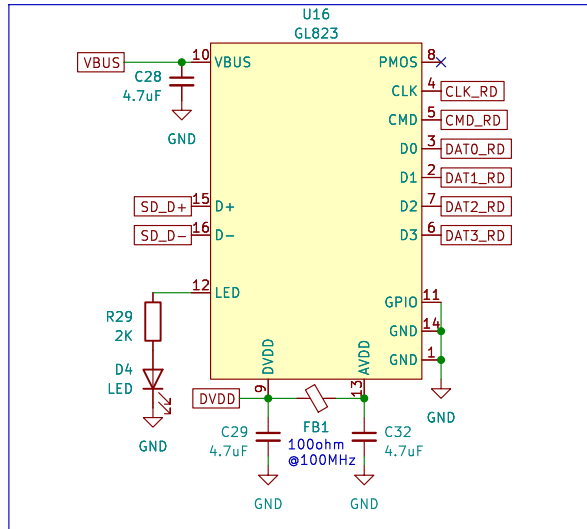
The diagram shows a reverse voltage protection circuit. A BATT+ source is connected to a polyfuse (F2). The other end of the polyfuse is connected to a MOSFET (Q2 CJ3134K KF) through a capacitor (C10 1uF). The MOSFET's gate is connected to its drain through a battery cell (BT1). The MOSFET's source is connected to ground (GND). The MOSFET's drain is connected to the load (represented by a circle with a triangle and a dot). The MOSFET is labeled with '3' at the gate, '2' at the drain, and '1' at the source.

Rev:  
Id: 3/5

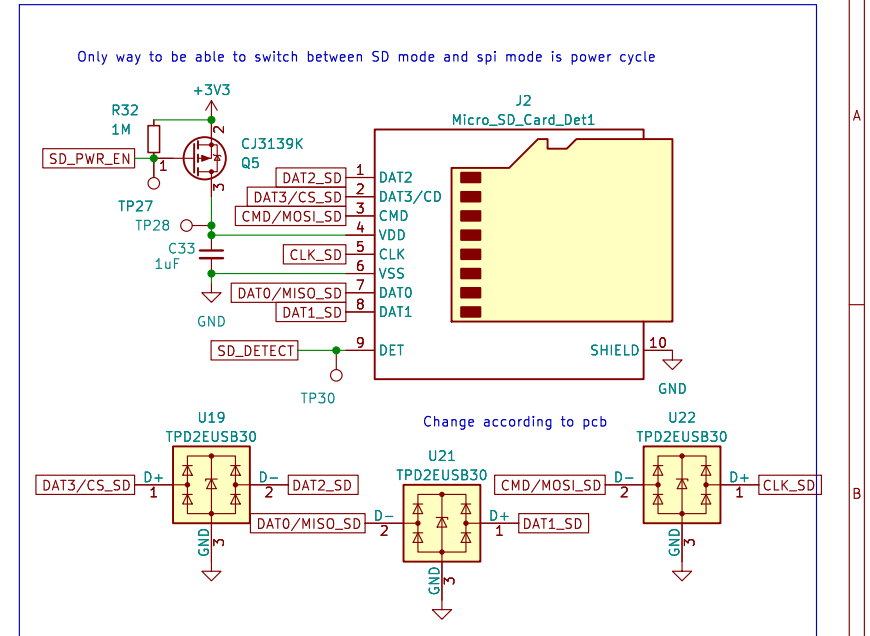
## USB hub



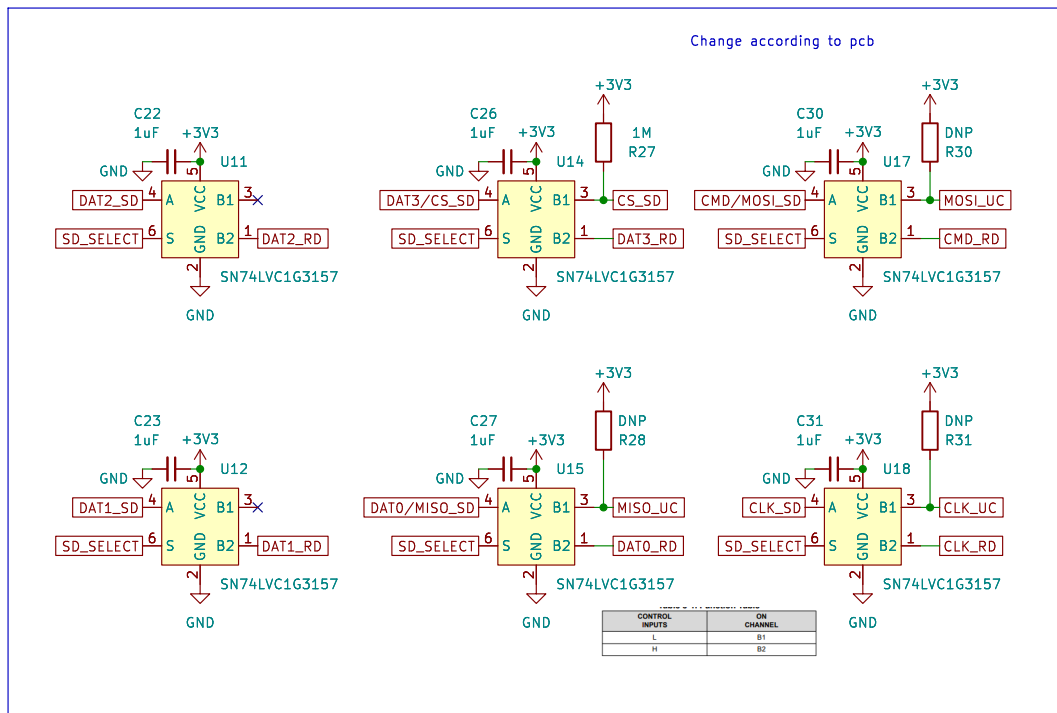
## USB SD card reader



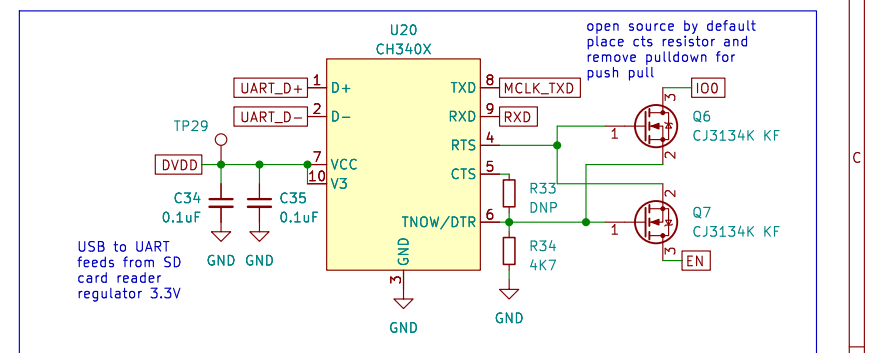
## SD card w/ protection diodes



## Analog switches for SD card data lines



## USB to UART converter



Sheet: /USB Stuff/  
File: usb\_stuff.kicad\_sch

Title:

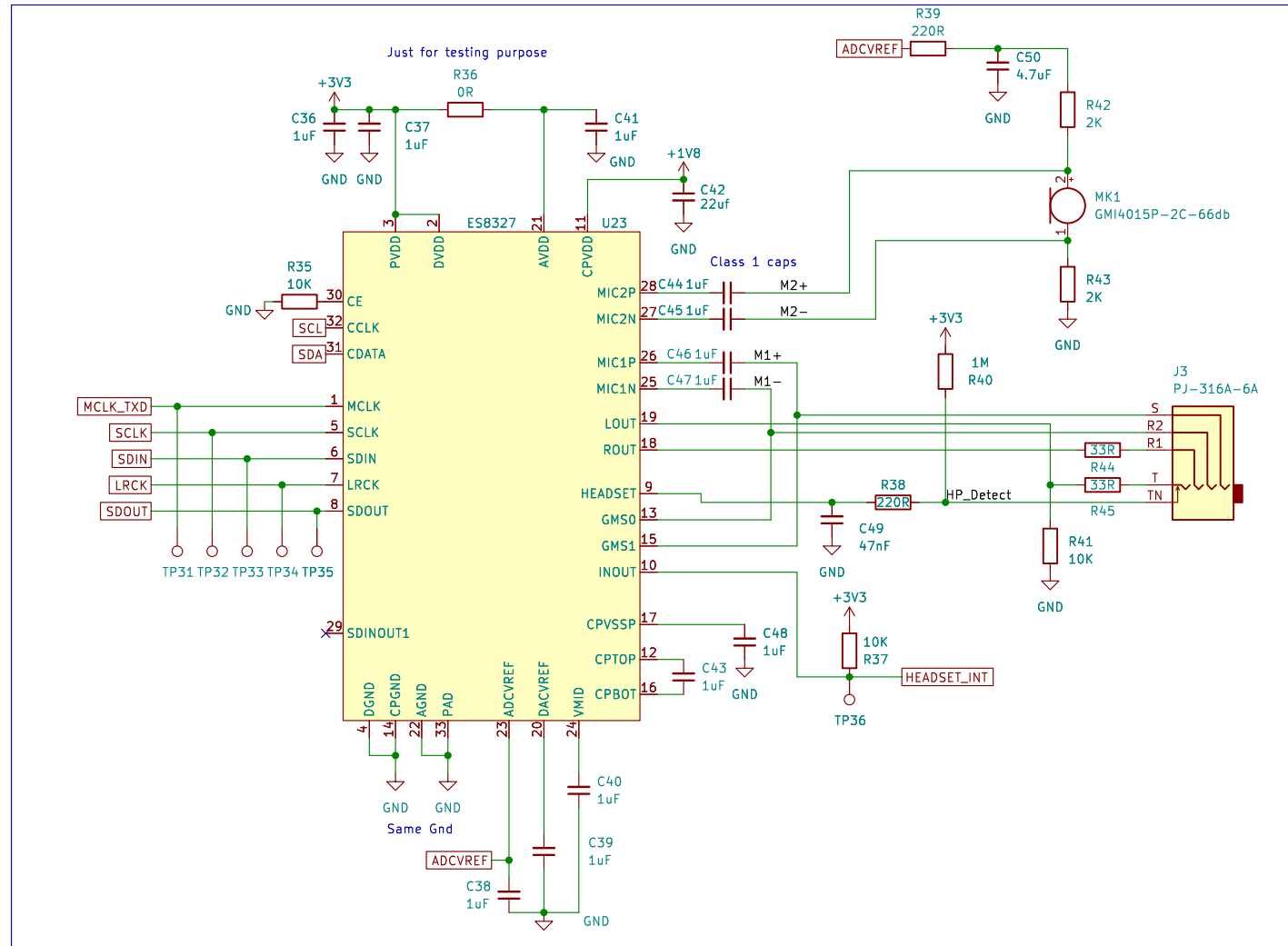
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Date:

Rev:

Id: 4/5

# I2S ADC/DAC



Sheet: /Codec/  
File: codec.kicad\_sch

## Title:

Size: A4  
KiCad E.D.A. kicad 7.0.2-0

Date:

Rev:  
Id: 5/5