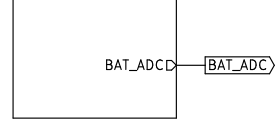
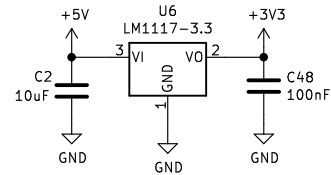


NIEUW

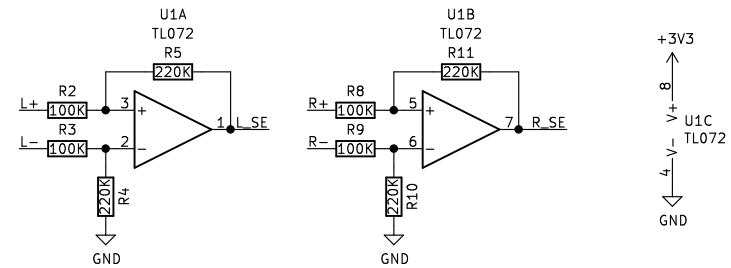
Sheet: Batterij-charge



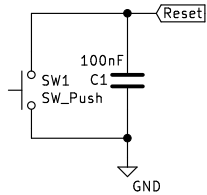
+3V3 Supply



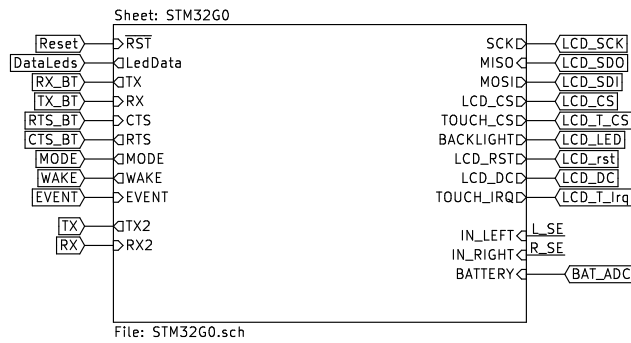
750mVrms differential from module \* 2.2 to single ended



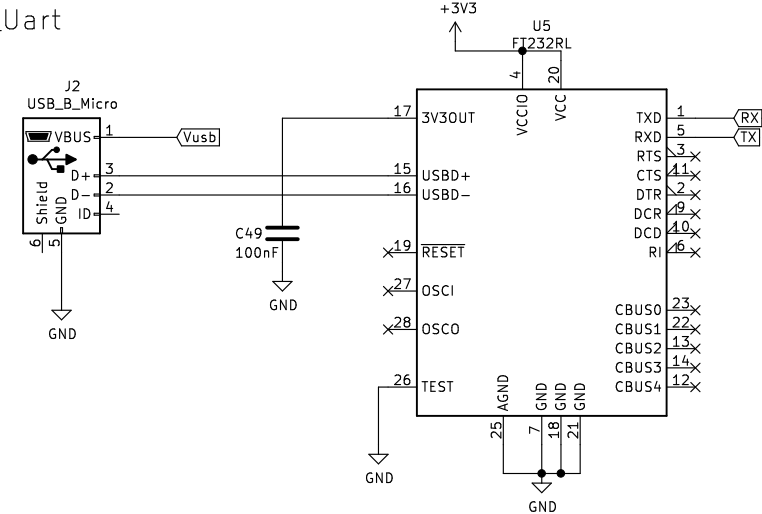
Reset\_Circuit



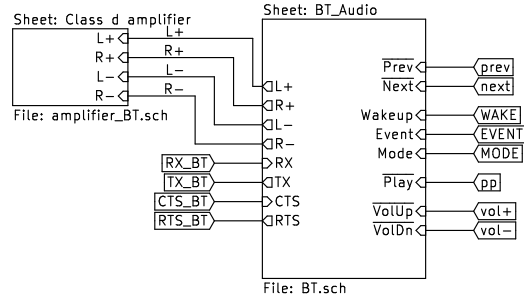
Microcontroller



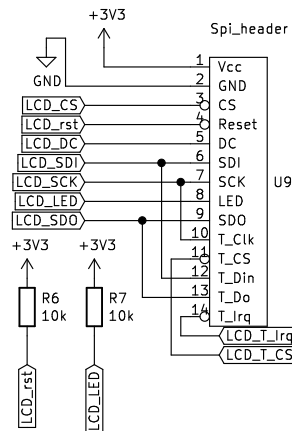
Debug\_Uart



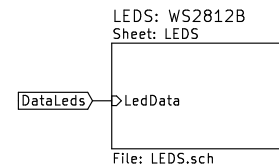
Audio



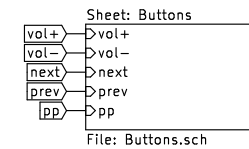
Touch / TFT



Basic IO



Buttons active low  
(vol+, vol-, next, prev, pp)



Sheet: /  
File: schema\_v1.sch

**Title:** Robbe Janssens - Practice Enterprise 2 - BlueTooth Music Speaker

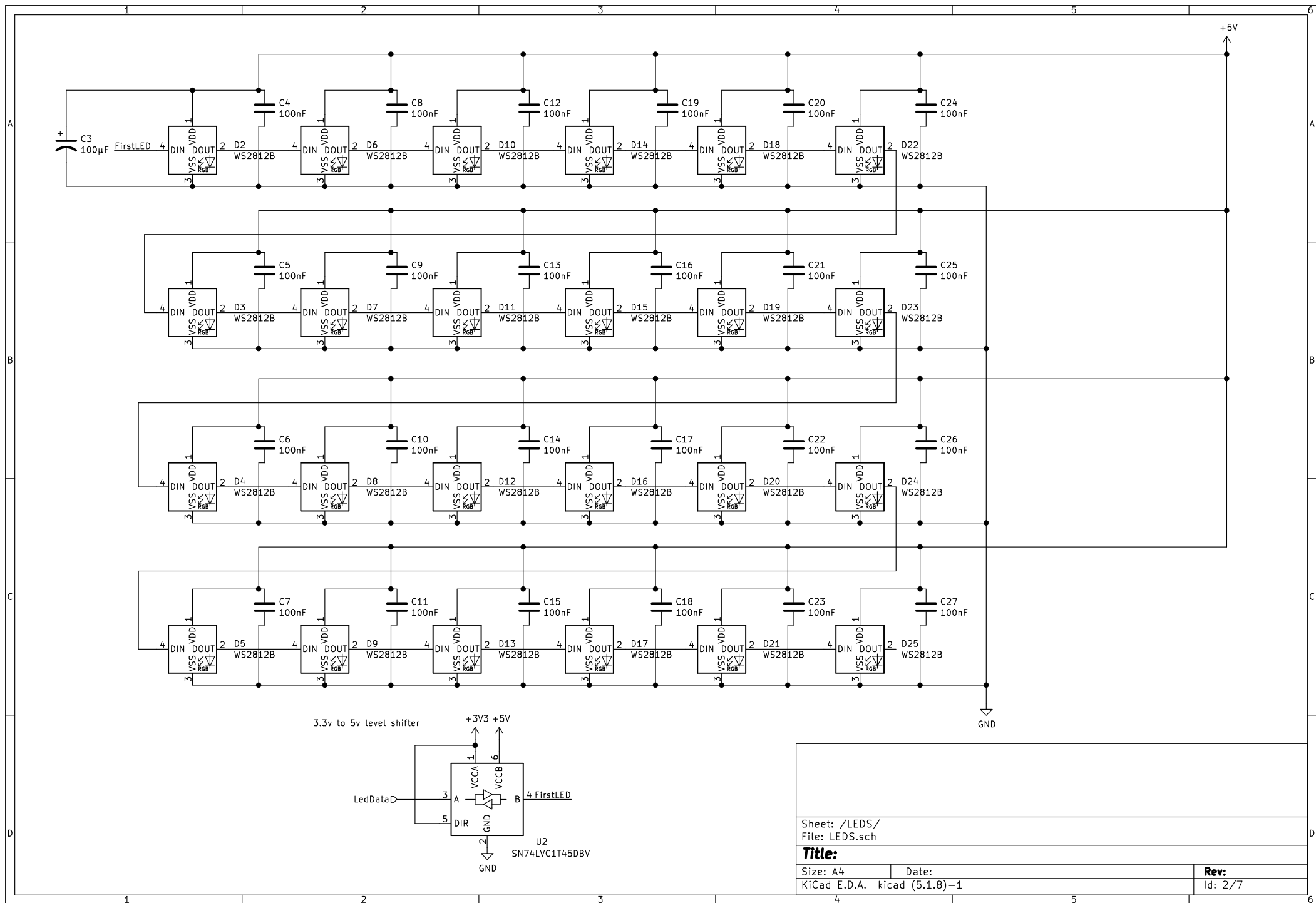
Size: A4

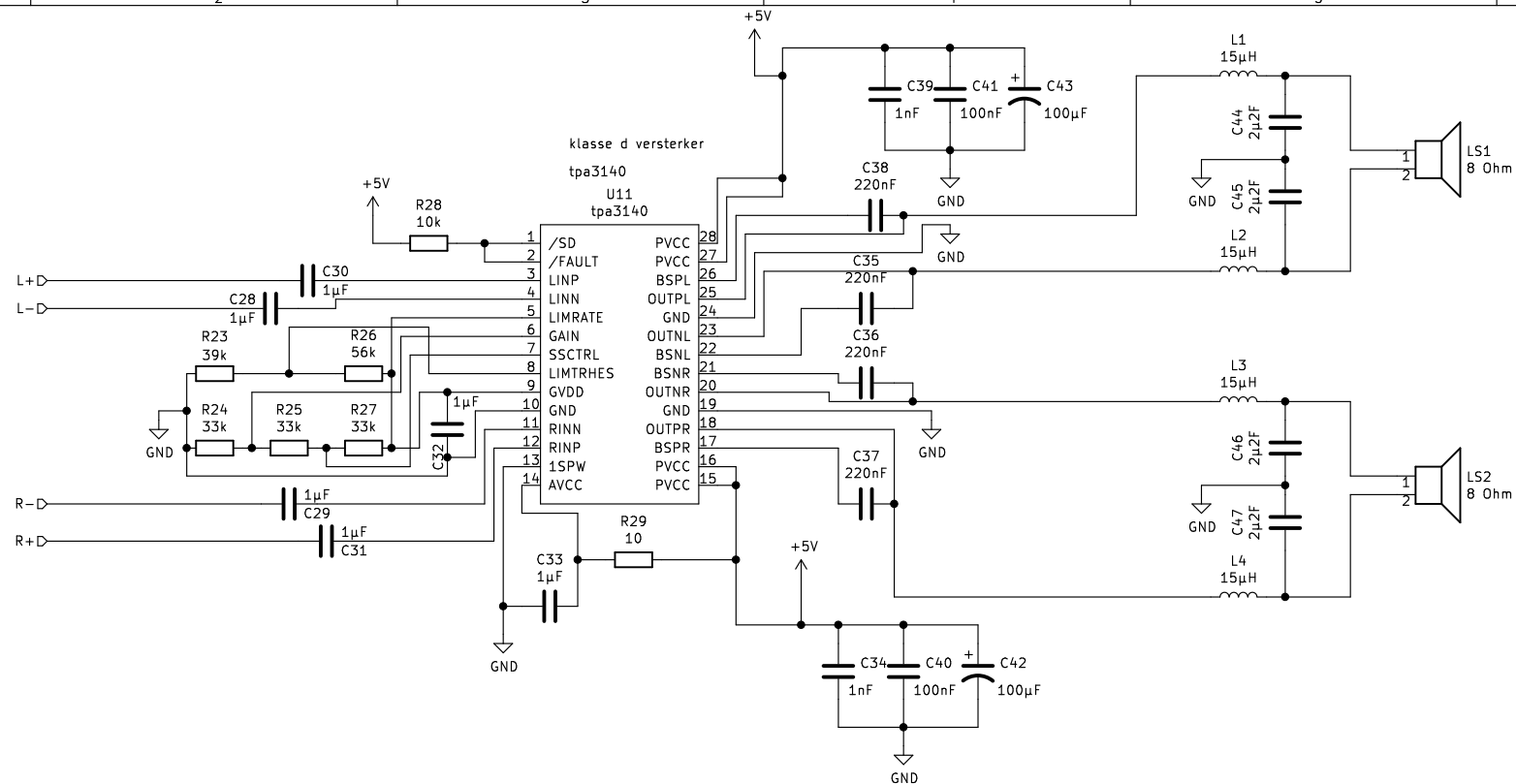
Date:

KiCad E.D.A. kicad (5.1.8)-1

Rev:

Id: 1/7





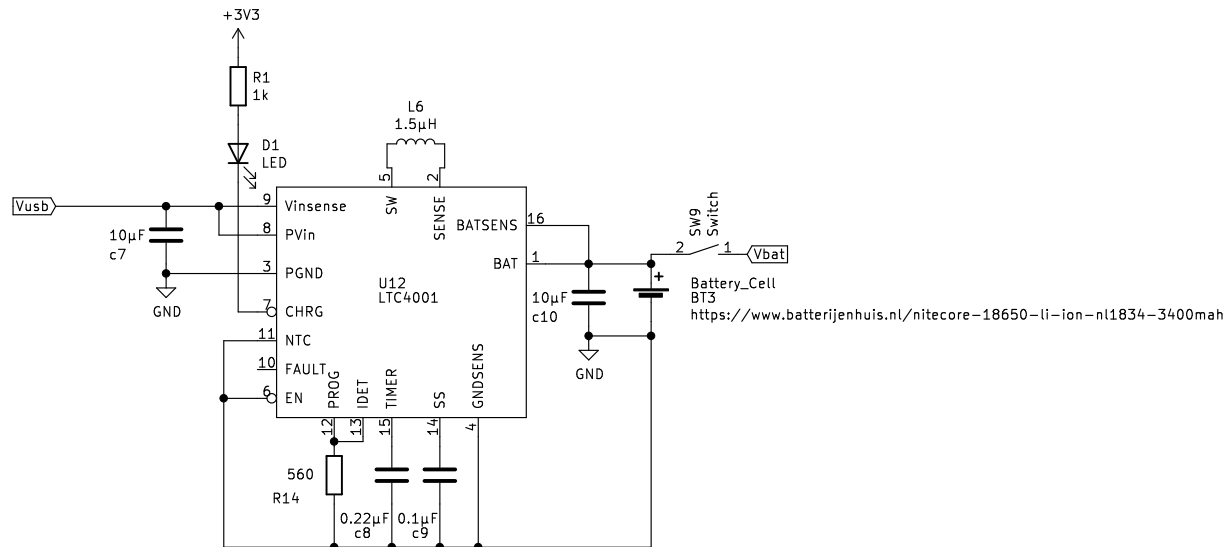
Sheet: /Class d amplifier/  
File: amplifier\_BT.sch

**Title:**

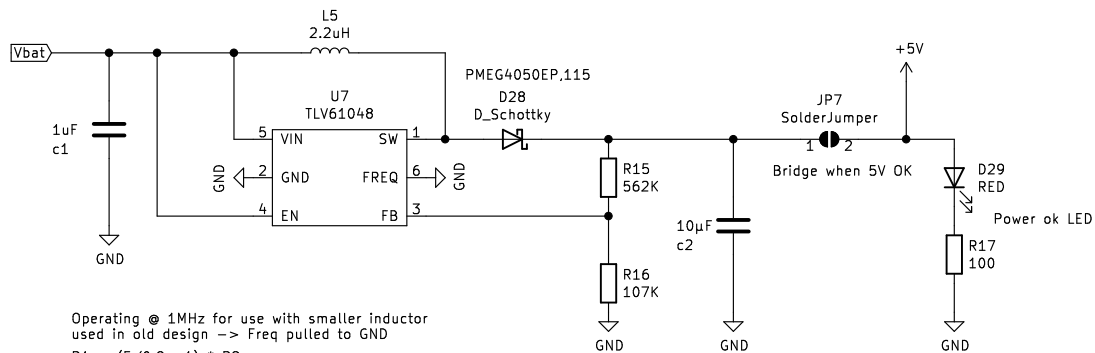
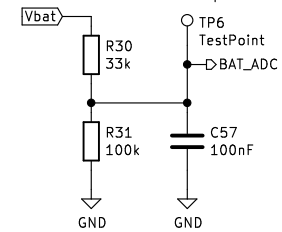
Size: A4  
KiCad E.D.A. kicad (5.1.8)-1

Date:

Rev:  
Id: 3/7



afmeten bat spanning



Operating @ 1MHz for use with smaller inductor  
used in old design -> Freq pulled to GND  
 $R1 = (5/0.8 - 1) * R2$   
 $R1 = 5.25 * 107K = 562K$

Sheet: /Batterij-charge/  
File: batterij.sch

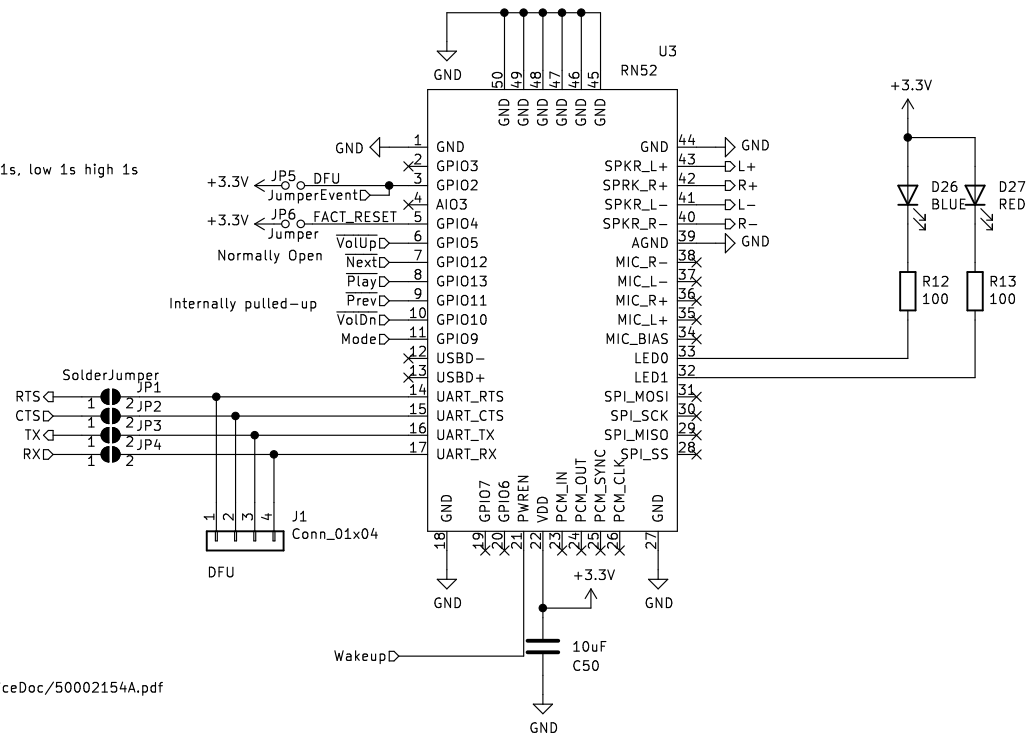
**Title:**

Size: A4  
KiCad E.D.A. kicad (5.1.8)-1

Date:

**Rev:**  
Id: 4/7

\*Factory reset:  
GPIO4 high on power on, then low 1s high 1s, low 1s high 1s  
\*DFU  
Pull DFU pin high during boot  
\*BT pin  
1234  
\*UART  
115200bps,8N1  
\*Mode  
high=data mode, low=command mode



LED 0 & LED1: discovery enabled  
LED0: module is connected  
LED1: connection is possible

<https://ww1.microchip.com/downloads/en/DeviceDoc/50002154A.pdf>

Sheet: /BT\_Audio/  
File: BT.sch

**Title:**

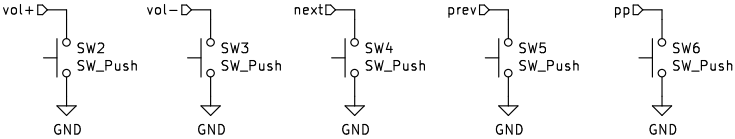
Size: A4

Date:

KiCad E.D.A. kicad (5.1.8)-1

**Rev:**

Id: 5/7



Buttons to directly control the inputs of the bluetooth module  
The module has internal pull-ups

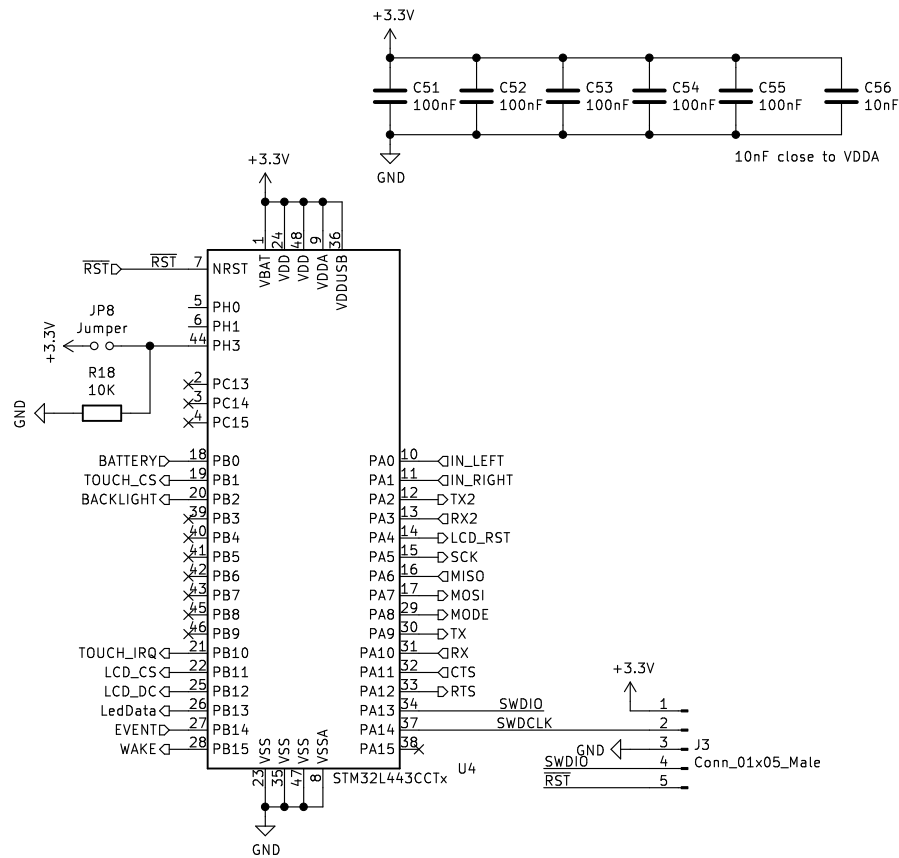
Sheet: /Buttons/  
File: Buttons.sch

**Title:**

Size: A4  
KiCad E.D.A. kicad (5.1.8)-1

Date:

**Rev:**  
Id: 6/7



Sheet: /STM32G0/  
File: STM32G0.sch

**Title:**

Size: A4

Date:

KiCad E.D.A. kicad (5.1.8)-1

**Rev:**

Id: 7/7