

Dock

File: Dock/Dock.kicad\_sch

EarringR

File: EarringRight/BLEEarrings.kicad\_sch

EarringL

File: EarringLeft/BLEEarrings.kicad\_sch

Pendant1

File: Pendant/Earring.kicad\_sch

Pendant2

File: Pendant/Earring.kicad\_sch

DK

Sheet: /

File: Combine.kicad\_sch

Title: BLEarrings V1

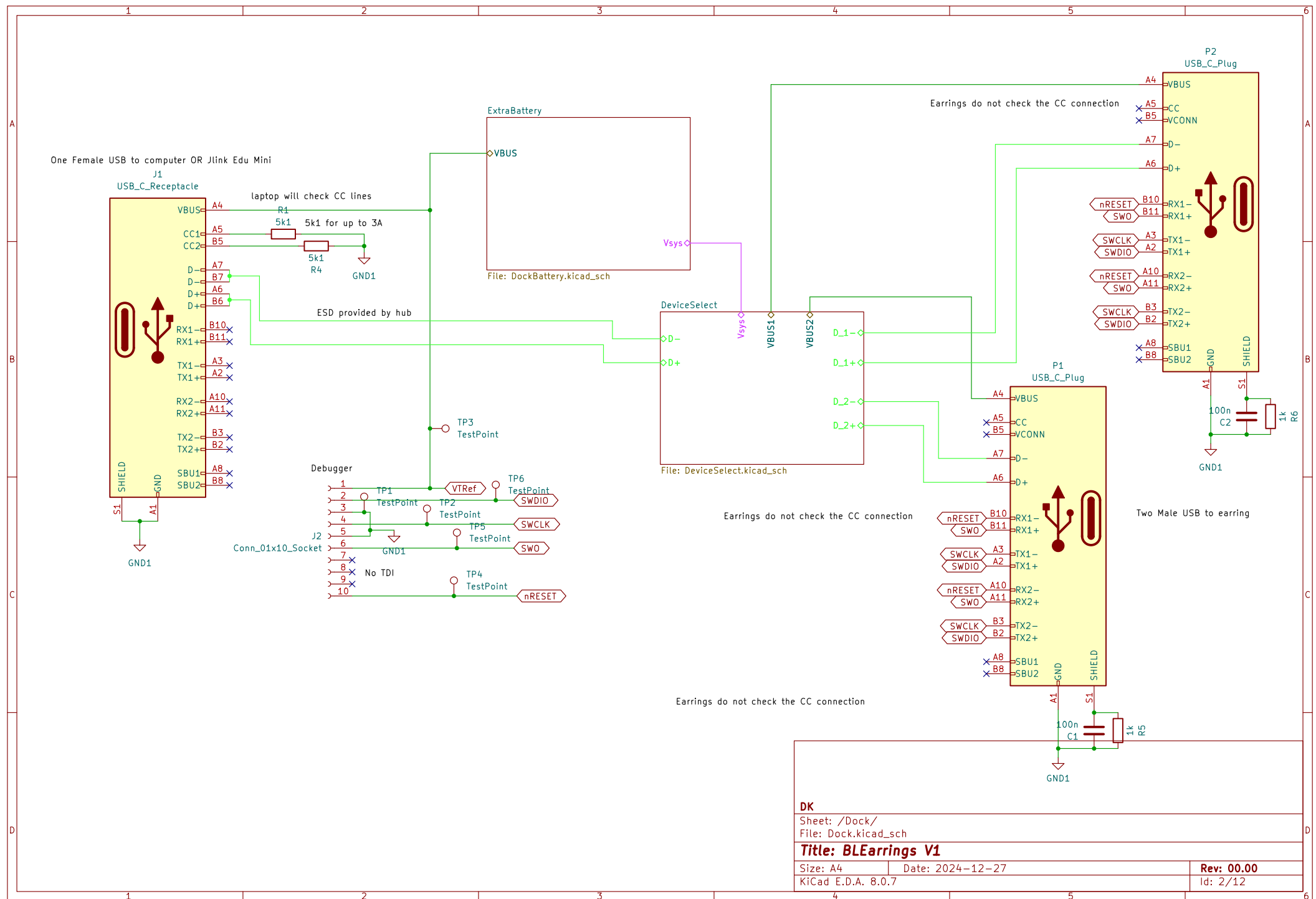
Size: A4

Date: 2024-12-27

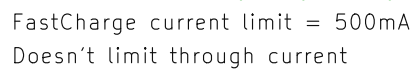
Rev: 00.00

KiCad E.D.A. 8.0.7

Id: 1/12



Vsys out when Vin>Vout = 4.4V when VDPPM (when charging current reduced) = 4.3V  
Vsys when on bat (down to 3.2V)



TP9 TestPoint

C8 10u

R13 732

U3 TPS61023DRLR

1 PB 2 EN 3 VIN 4 GND 5 SW 6 VOUT 7 FB

R14 100k

L1 4.7u

TP10 TestPoint

C9 22u

C10 22u

Load is 200mA \* 2 approx 500mA

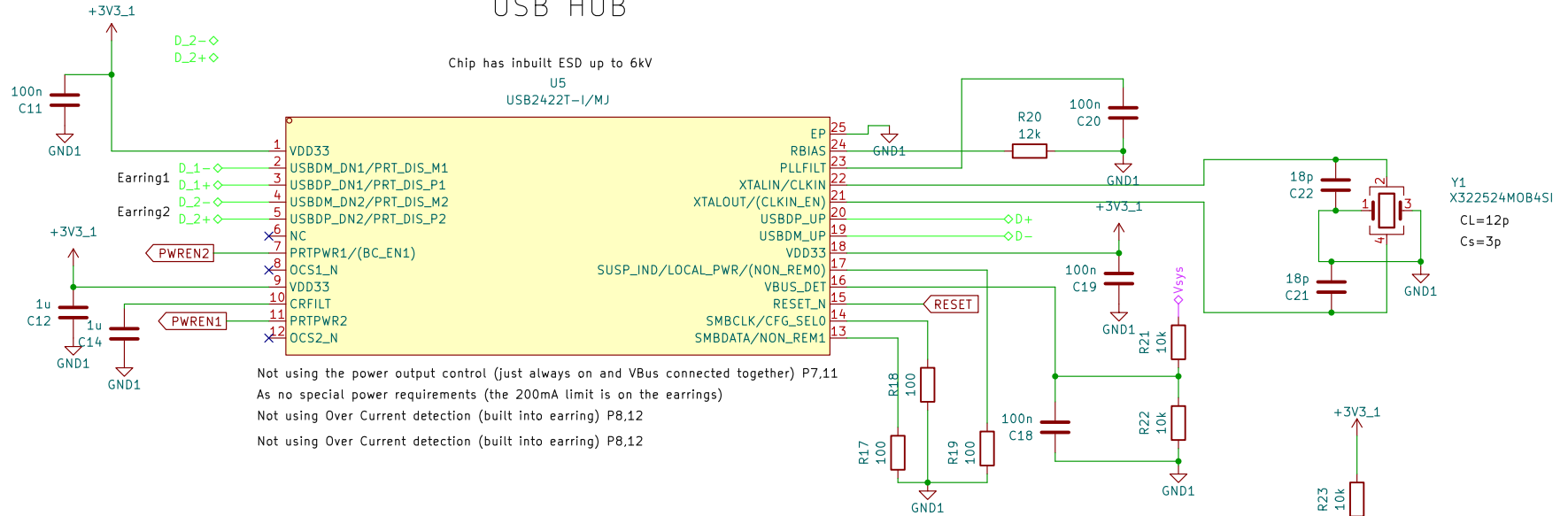
Vsys

GND1

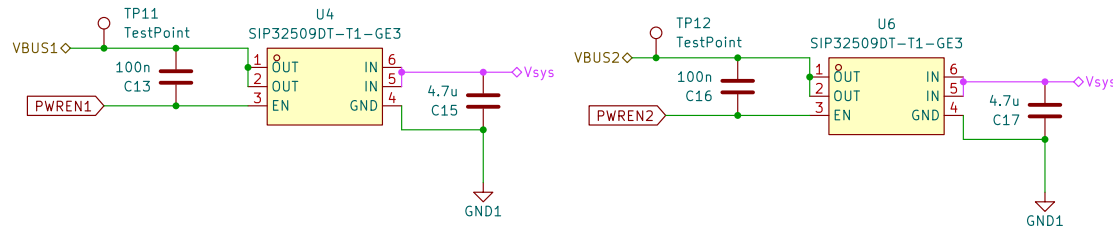
$$I_L(P) = 750.7507508\text{mA} + 263\text{mA}/2 = 882\text{mA}$$

<b>DK</b>		D
Sheet: /Dock/ExtraBattery/ File: DockBattery.kicad_sch		
<b>Title: BLEarrings V1</b>		
Size: A4	Date: 2024-12-27	
KiCad E.D.A. 8.0.7	<b>Rev: 00.00</b> Id: 3/12	

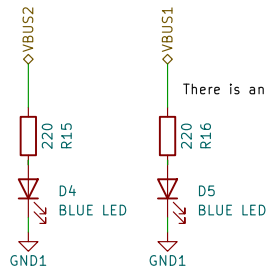
## USB HUB



## Power Switch IC for VBUS path



Earring 2 charging Earring 1 charging



There is an indicator on the earrings that will show through the casing for this

DK

Sheet: /Dock/DeviceSelect/  
File: DeviceSelect.kicad\_sch

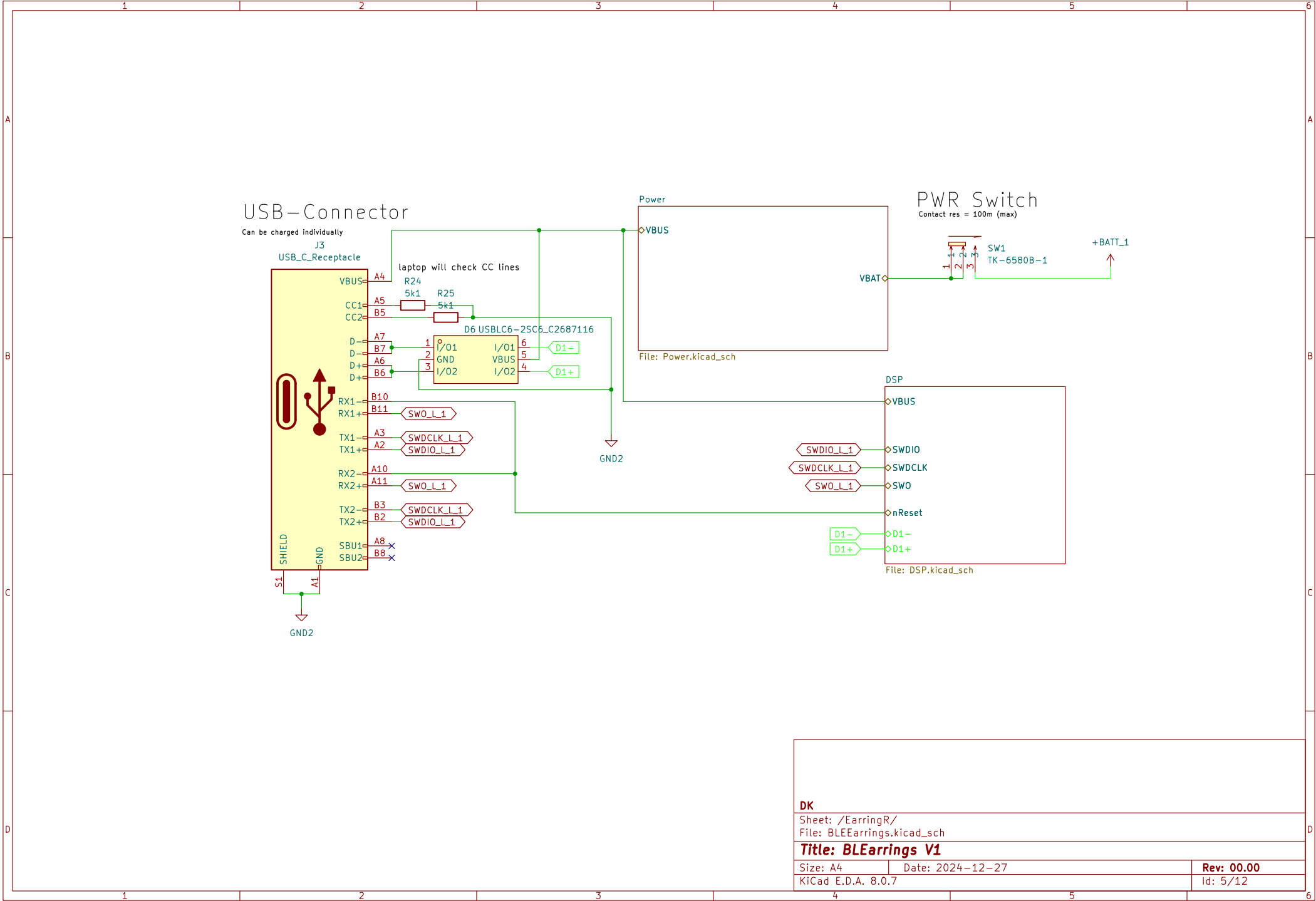
**Title: BLEarrings V1**

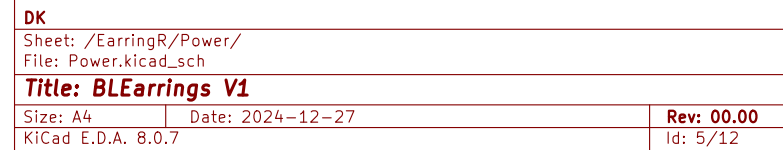
Size: A4 Date: 2024-12-27

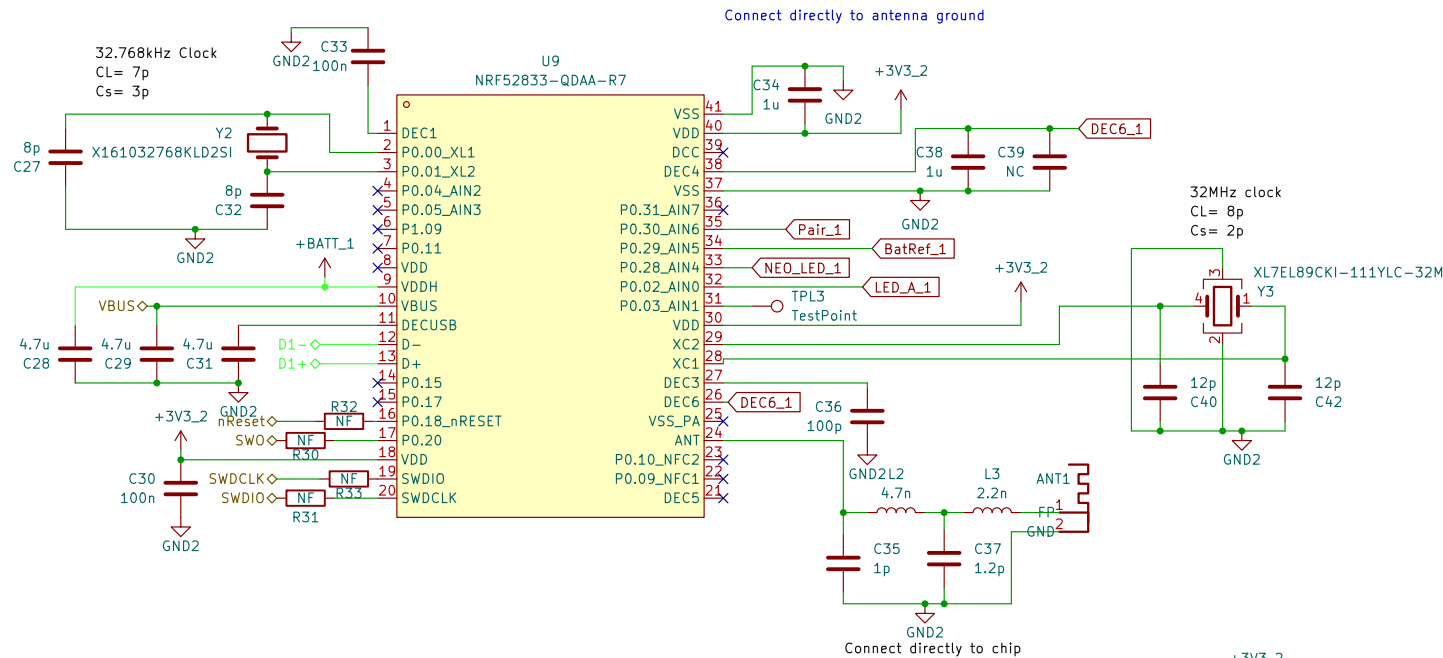
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Rev: 00.00

Id: 4/12







DK

Sheet: /EarringR/DSP/  
File: DSP.kicad\_sch

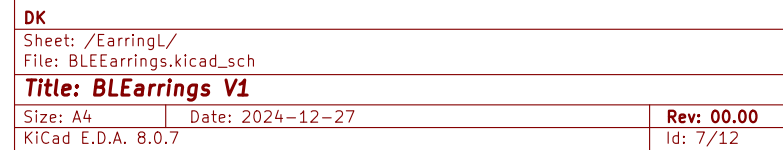
**Title: BLEarrings V1**

Size: A4 Date: 2024-12-27

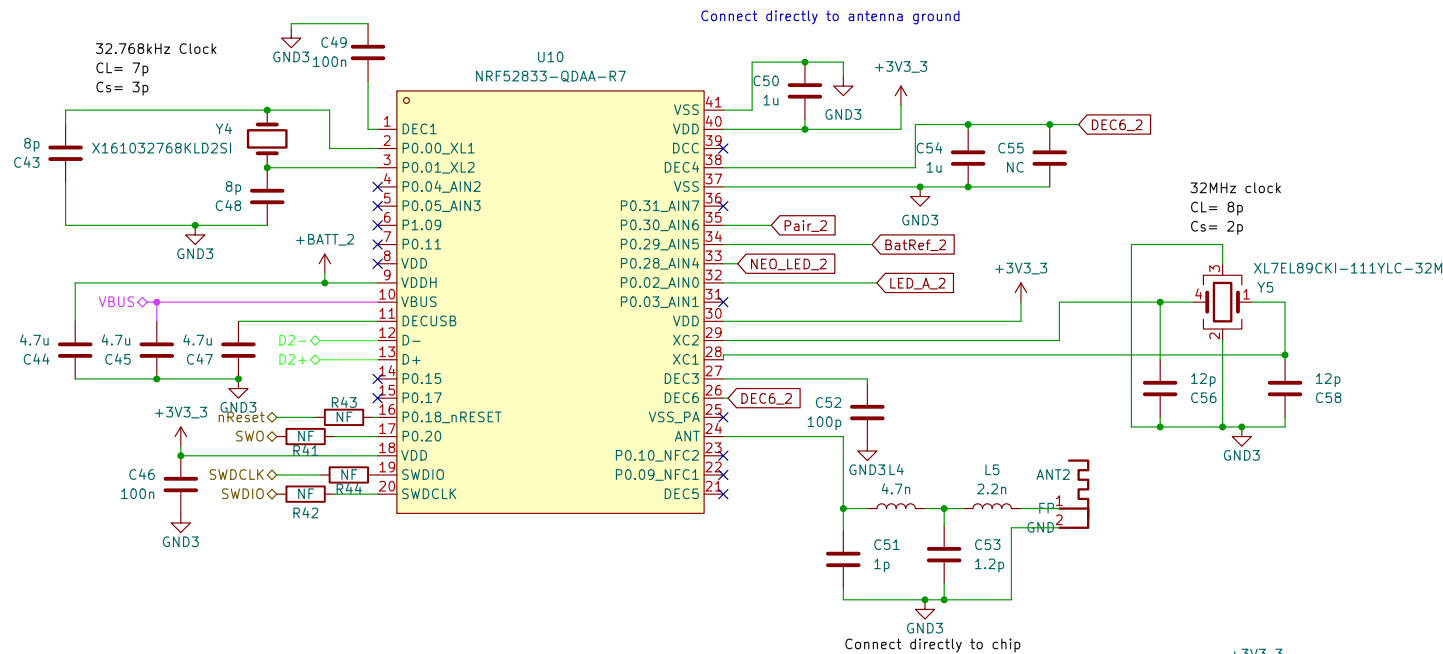
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Rev: 00.00

Id: 6/12







DK

Sheet: /EarringL/DSP/  
File: DSP.kicad\_sch

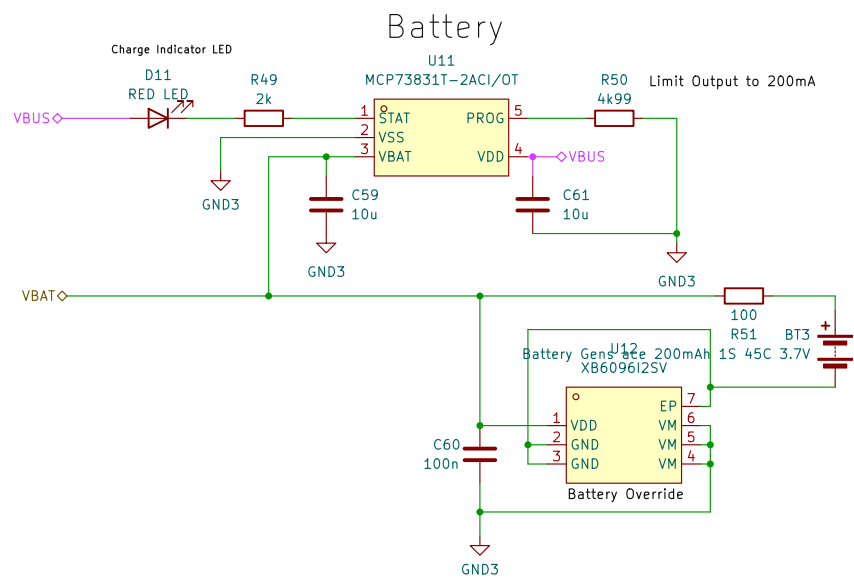
**Title: BLEarrings V1**

Size: A4 Date: 2024-12-27

KiCad E.D.A. 8.0.7

Rev: 00.00

Id: 8/12



DK

Sheet: /EarringL/Power/  
File: Power.kicad\_sch

**Title: BLEarrings V1**

Size: A4 Date: 2024-12-27

KiCad E.D.A. 8.0.7

**Rev: 00.00**  
Id: 9/12

