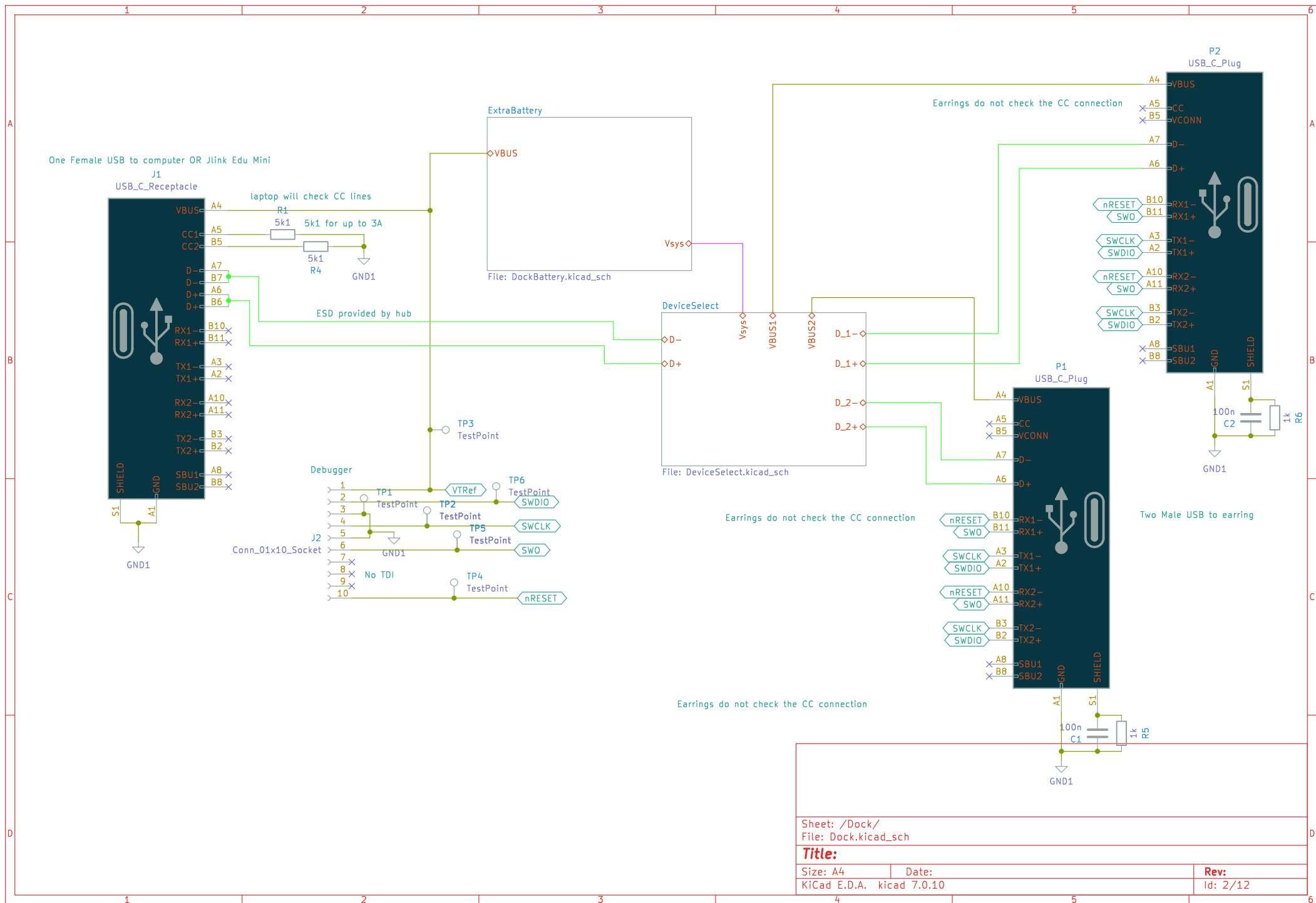


1	2	3	4	5	
A	<div>Dock</div> <div>File: Dock/Dock.kicad_sch</div>				A
B					B
C					C
D	<div>EarringR</div> <div>File: EarringRight/BLEEarrings.kicad_sch</div> <div>EarringL</div> <div>File: EarringLeft/BLEEarrings.kicad_sch</div> <div>Pendant1</div> <div>File: Pendant/Earring.kicad_sch</div> <div>Pendant2</div> <div>File: Pendant/Earring.kicad_sch</div>				D
1	2	3	4	5	

Sheet: / File: Combine.kicad_sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad 7.0.10	Id: 1/12	



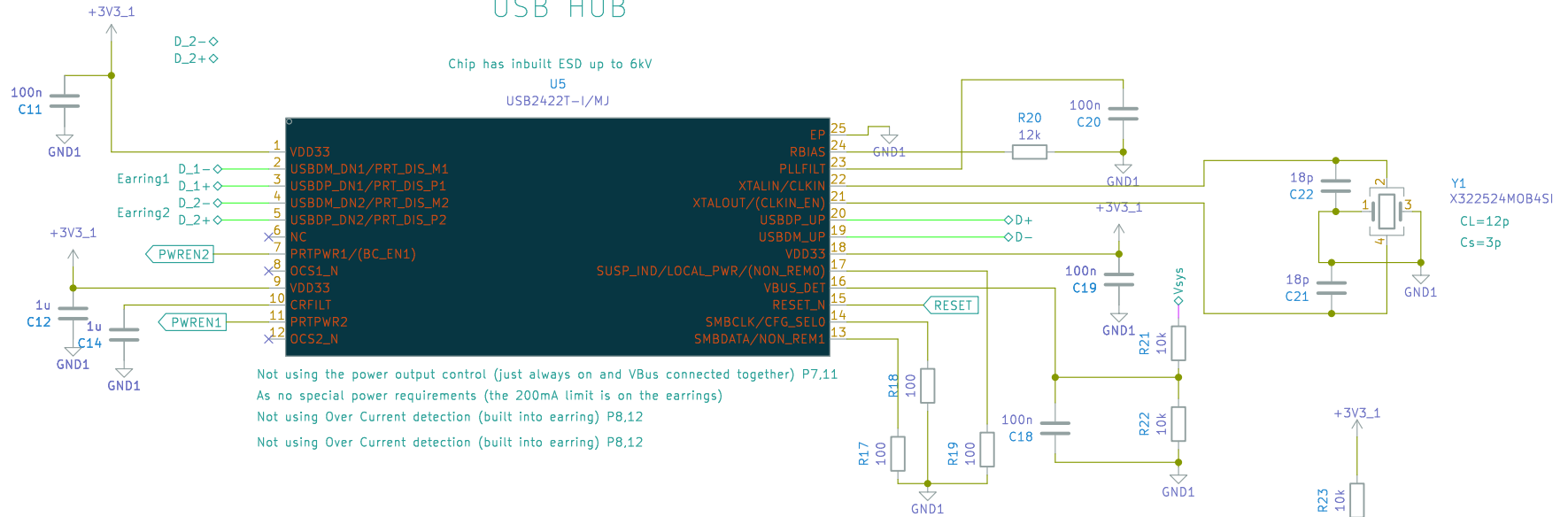
Vsys out when Vin>Vout = 4.4V when VDPPM (when charging current reduced) = 4.3V
Vsys when on bat (down to 3.2V)



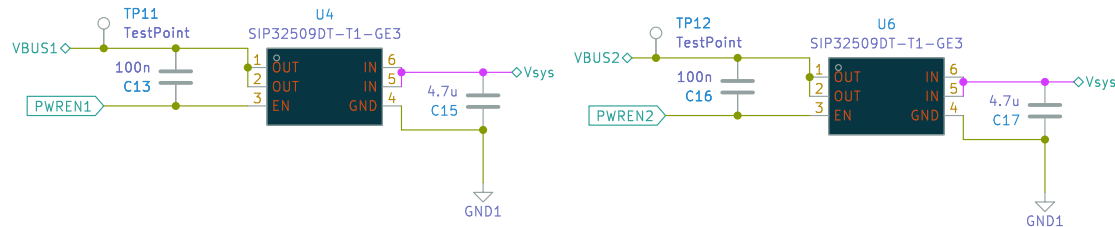
$$I_L(P) = 750.7507508\text{mA} + 263\text{mA}/2 = 882\text{mA}$$

Rev:
Id: 3/12

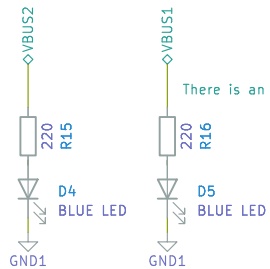
USB HUB



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

Sheet: /Dock/DeviceSelect/
File: DeviceSelect.kicad_sch

Title:

Size: A4
KiCad E.D.A. kicad 7.0.10

Date:

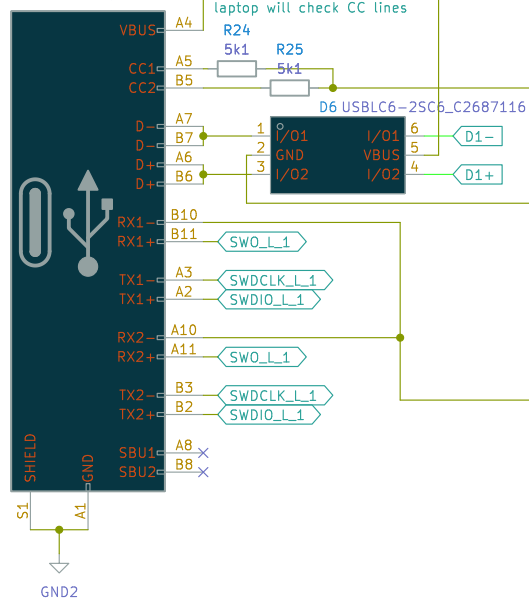
Rev:

Id: 4/12

USB-Connector

Can be charged individually

J3
USB_C_Receptacle



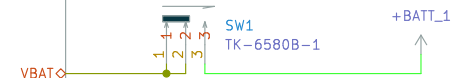
Power

VBUS

File: Power.kicad_sch

PWR Switch

Contact res = 100m (max)



DSP

VBUS

SWDIO_L_1
SWDCLK_L_1
SWO_L_1

D1-
D1+

File: DSP.kicad_sch

Kitty and Dom

Sheet: /EarringR/
File: BLEEarrings.kicad_sch

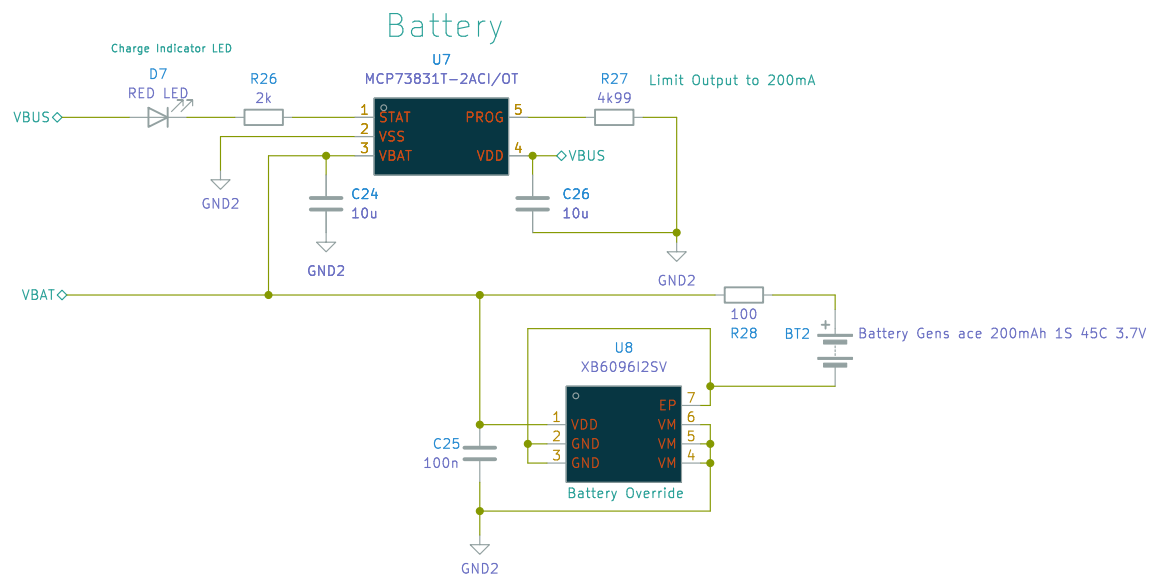
Title: BLEEarrings (Blade Runner)

Size: A4 Date: 2023-10-30

KiCad E.D.A. kicad 7.0.10

Rev: 00.00

Id: 5/12



Kitty and Dom

Sheet: /EarringR/Power/

File: Power.kicad_sch

Title: BLEearrings (Blade Runner)

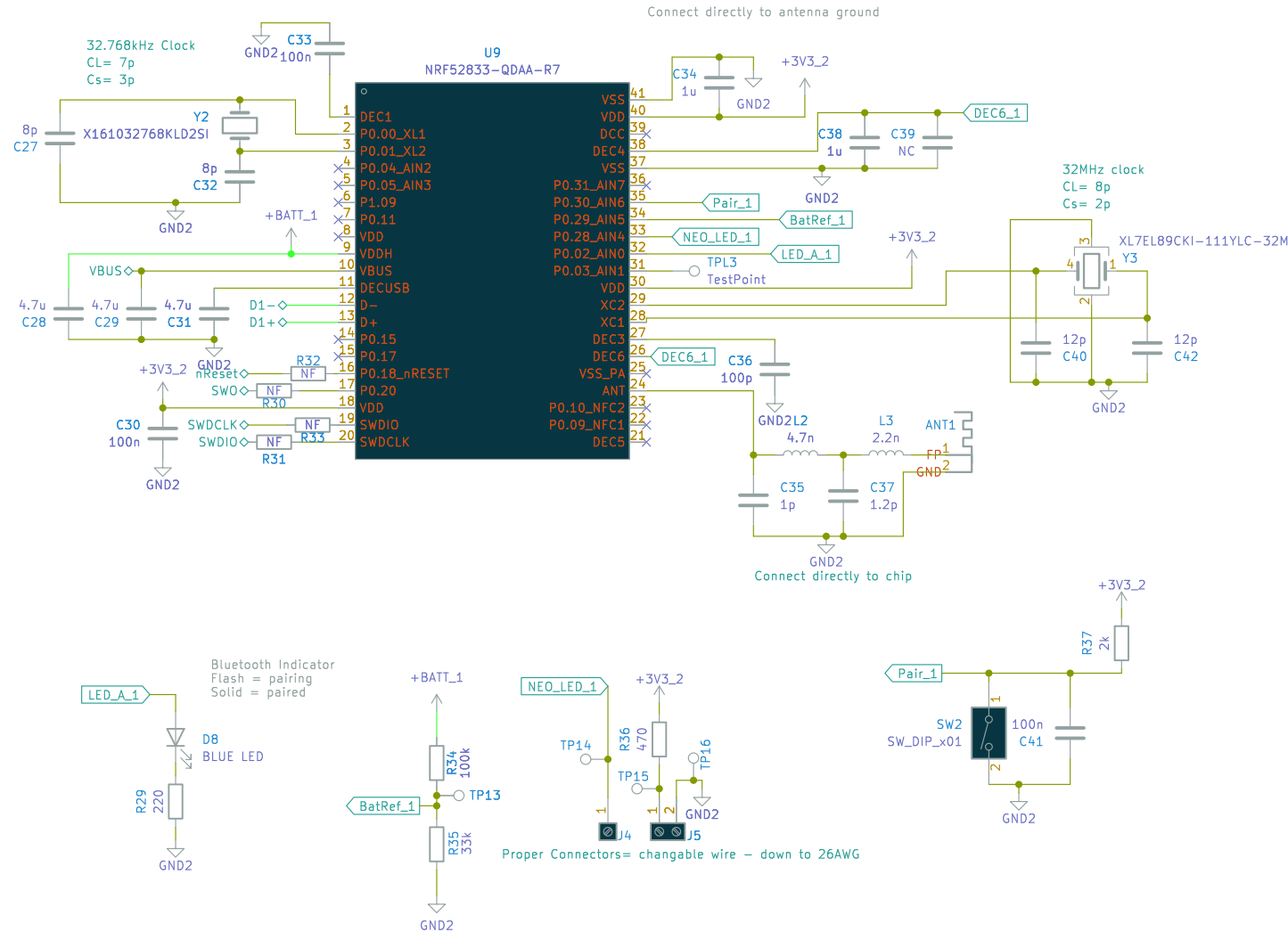
Size: A4

Date: 2023-10-30

Rev: 00.00

KiCad E.D.A. kicad 7.0.10

Id: 5/12



Kitty and Dom

Sheet: /EarringR/DSP/

File: DSP.kicad_sch

Title: BLE Earrings (Blade Runner)

Size: A4 Date: 2023-10-30

KiCad E.D.A. kicad 7.0.10

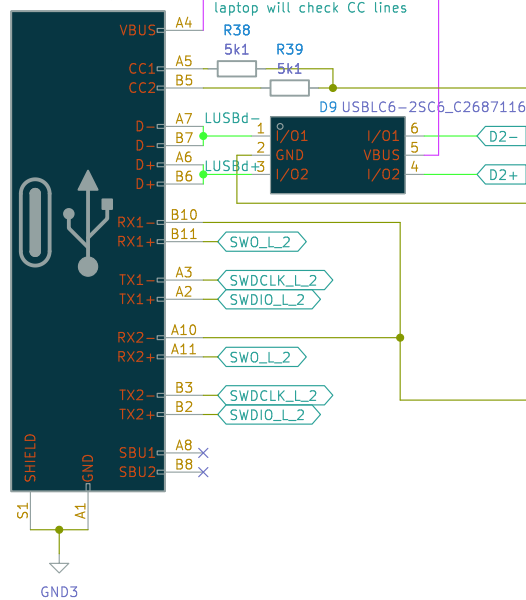
Rev: 00.00

Id: 6/12

USB-Connector

Can be charged individually

J6
USB_C_Receptacle



Power

VBUS

File: Power.kicad_sch

PWR Switch

Contact res = 100m (max)



DSP

VBUS

File: DSP.kicad_sch

Kitty and Dom

Sheet: /EarringL/

File: BLEEarings.kicad_sch

Title: BLEEarings (Blade Runner)

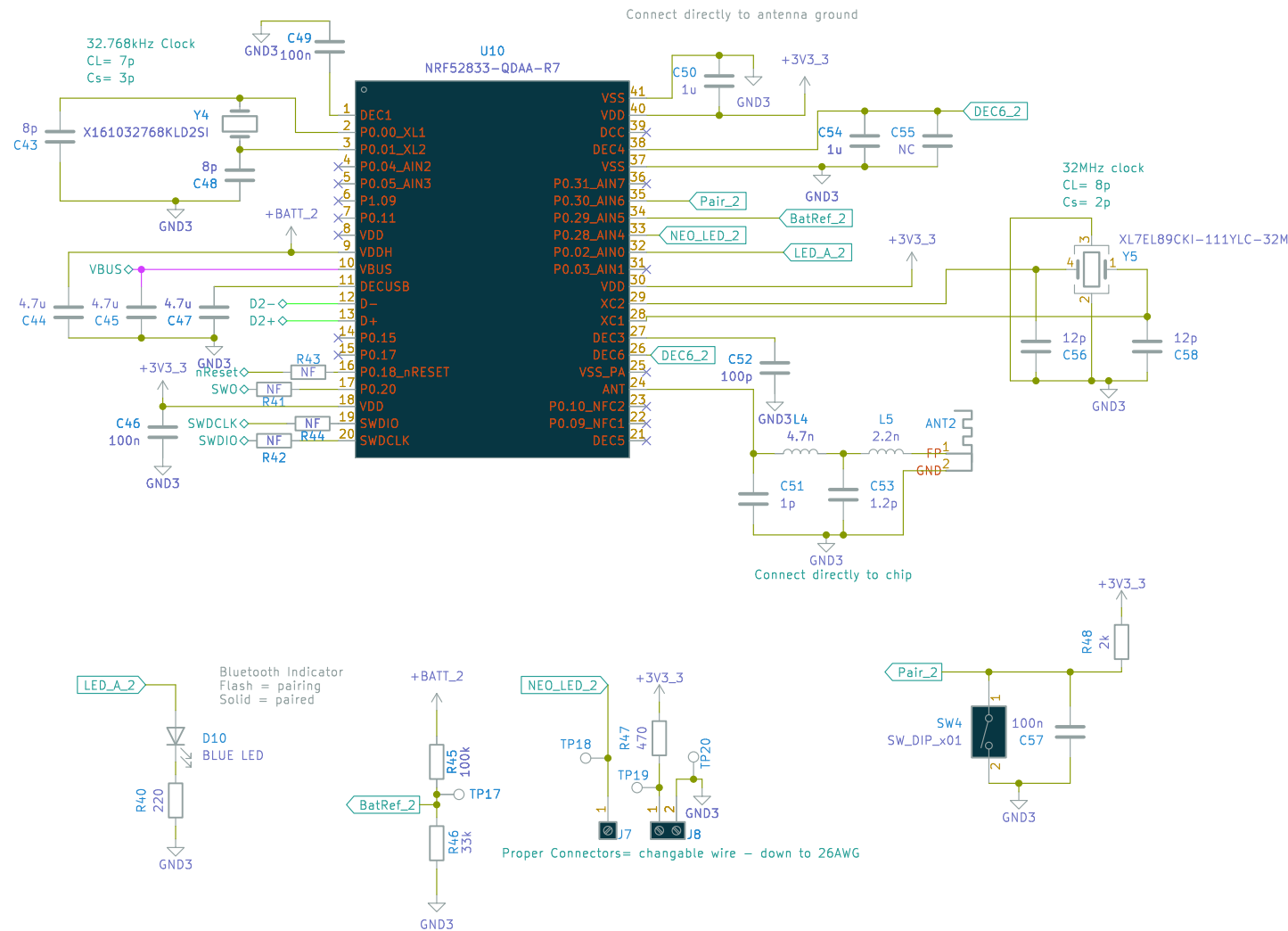
Size: A4

Date: 2023-10-30

Rev: 00.00

KiCad E.D.A. kicad 7.0.10

Id: 7/12



Kitty and Dom

Sheet: /EarringL/DSP/

File: DSP.kicad_sch

Title: BLEearrings (Blade Runner)

Size: A4 Date: 2023-10-30

KiCad E.D.A. kicad 7.0.10

Rev: 00.00

Id: 8/12

