

USB 2 Power Switches and Connectors
Power is always on, switches are there for safety
(they will deliver max 1A and shut off on overcurrent)

5V

5V

10k

100nF@50V

TPS2065CDBV

470nF@50V

470nF@50V

10k

USB_A_Stacked

VBUS1

VBUS2

D1+

D1-

D2+

D2-

Shield

GND1

GND2

GND

USBH1.P

USBH1.N

USBH2.P

USBH2.N

ETH1{ETH_TPI}D

ETH1.PAIR_A_P

ETH1.PAIR_A_N

ETH1.PAIR_B_P

ETH1.PAIR_B_N

ETH1.PAIR_C_P

ETH1.PAIR_C_N

ETH1.PAIR_D_P

ETH1.PAIR_D_N

ETH1.LED_G

ETH1.LED_Y

300R

300R

GND

J7

HR911130A

GREEN

YELLOW

SHIELD

GND

ETH2{ETH_TPI}D

ETH2.PAIR_A_P

ETH2.PAIR_A_N

ETH2.PAIR_B_P

ETH2.PAIR_B_N

ETH2.PAIR_C_P

ETH2.PAIR_C_N

ETH2.PAIR_D_P

ETH2.PAIR_D_N

ETH2.LED_G

ETH2.LED_Y

300R

300R

GND

J8

HR911130A

GREEN

YELLOW

SHIELD

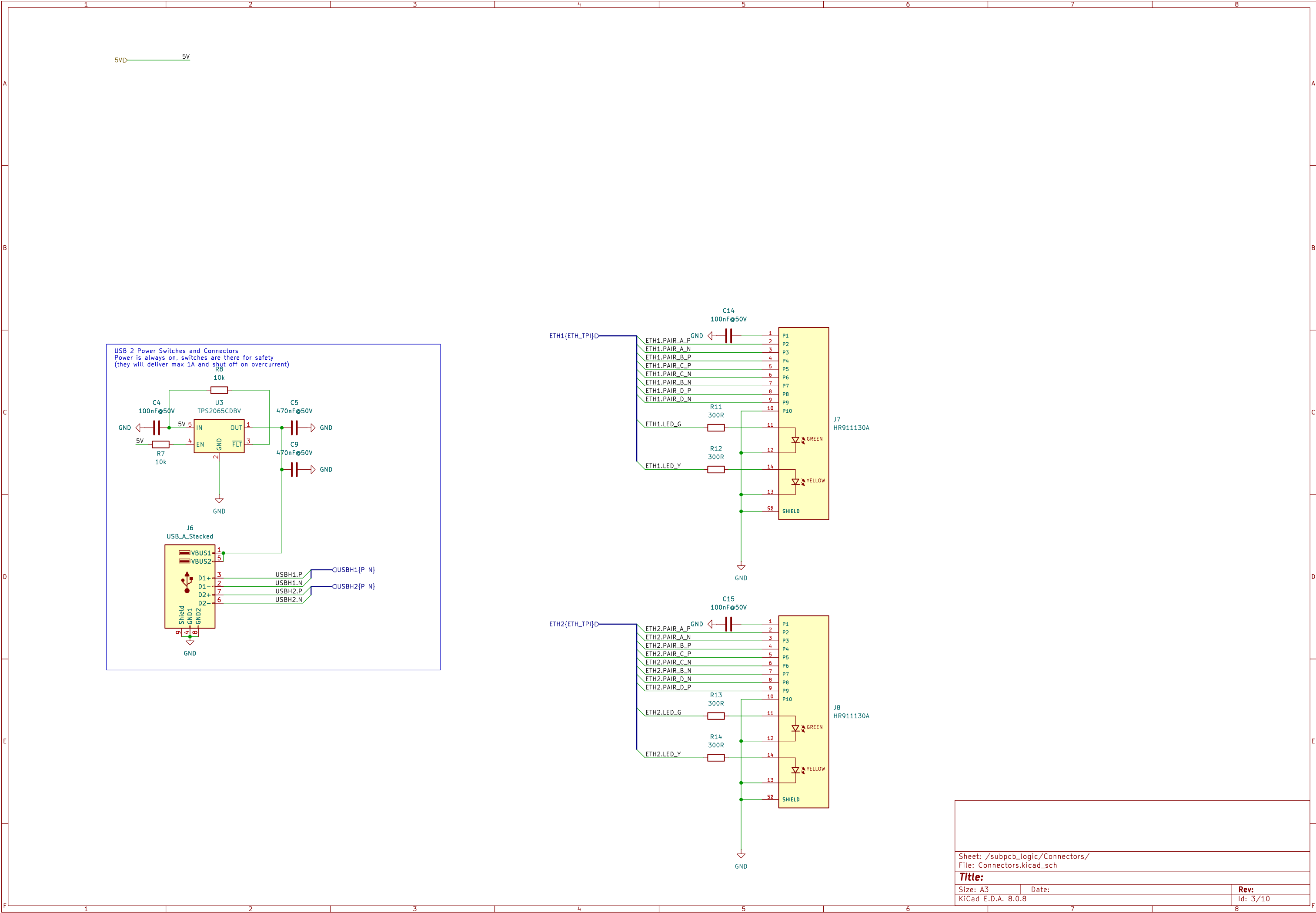
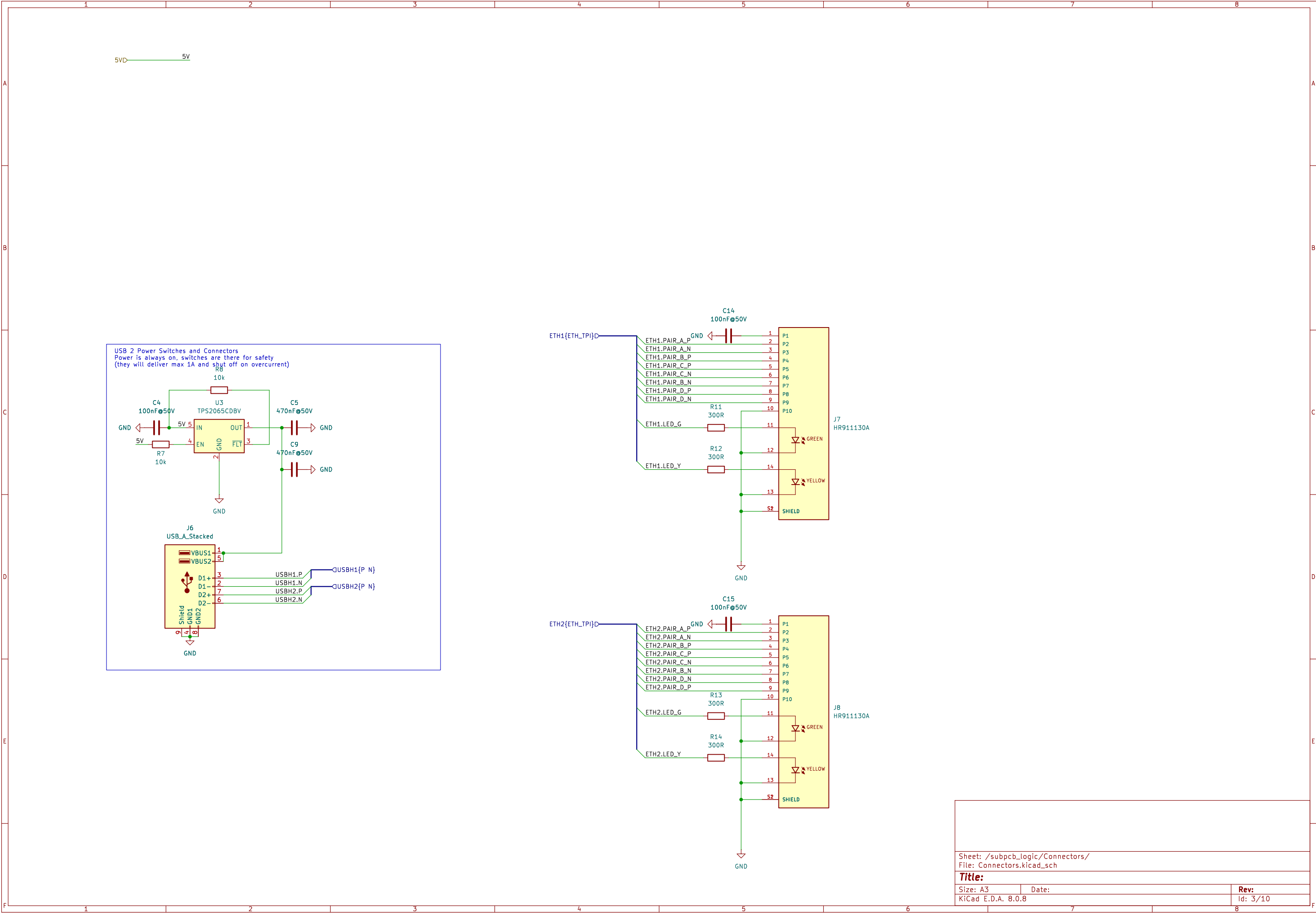
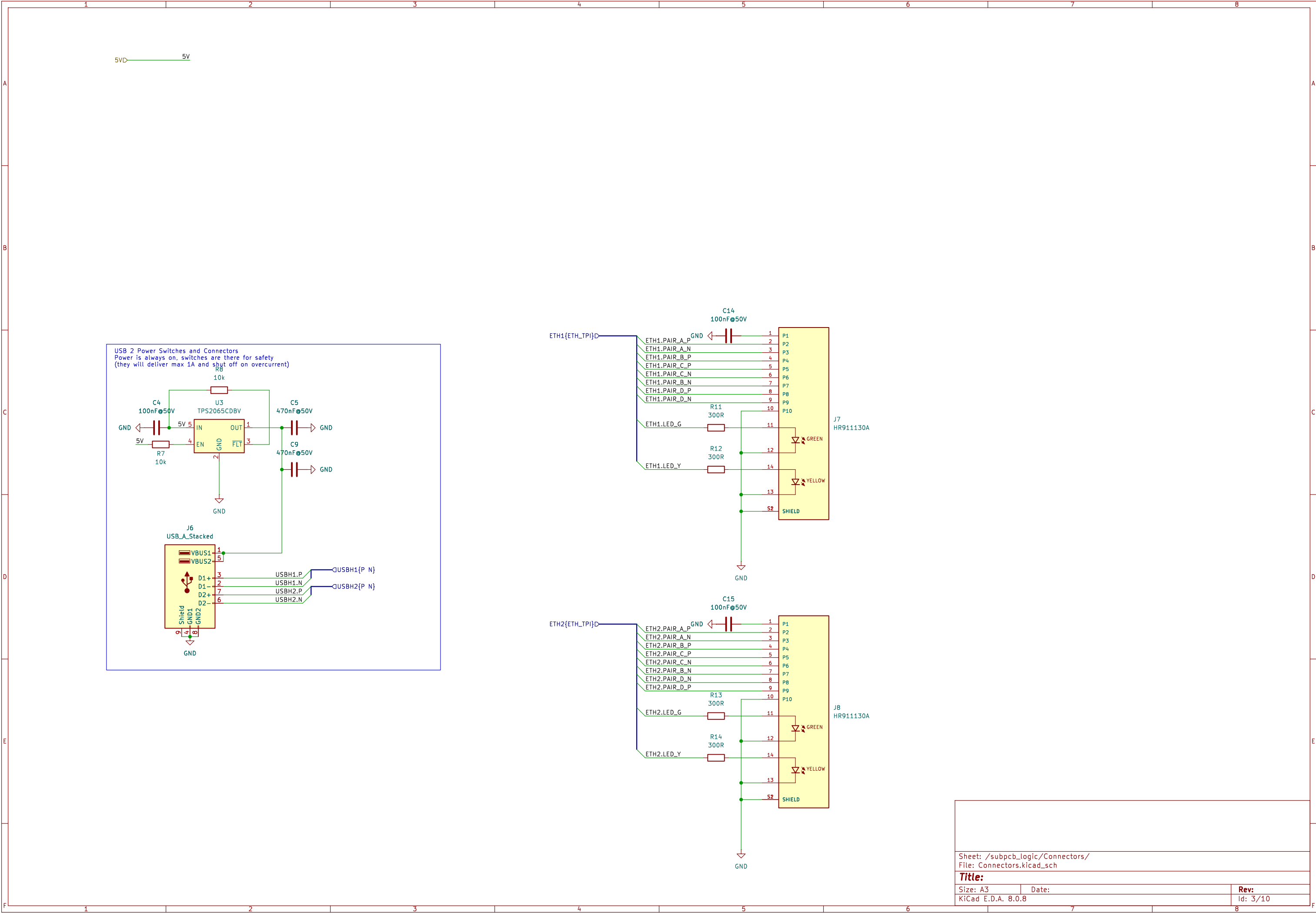
GND

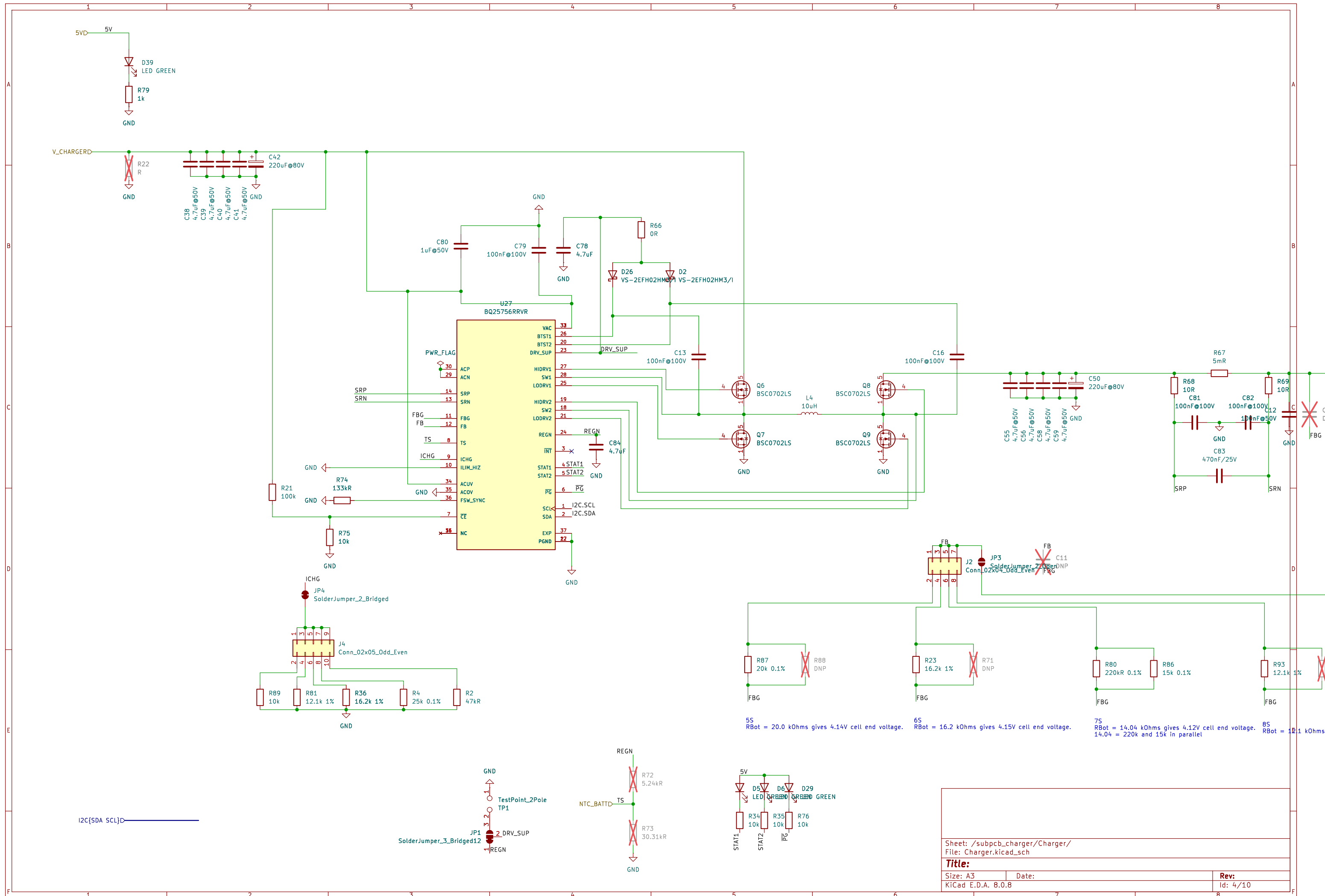
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File: Connectors.kicad_sch

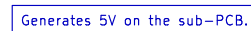
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Size: A3 Date: Rev:

KiCad E.D.A. 8.0.8 Id: 3/10

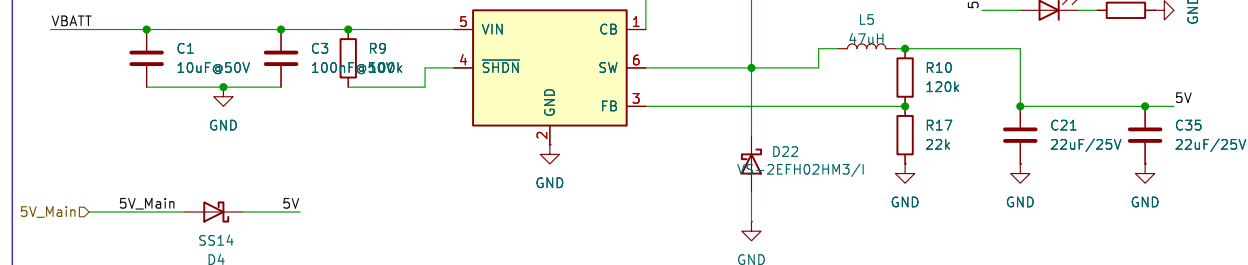




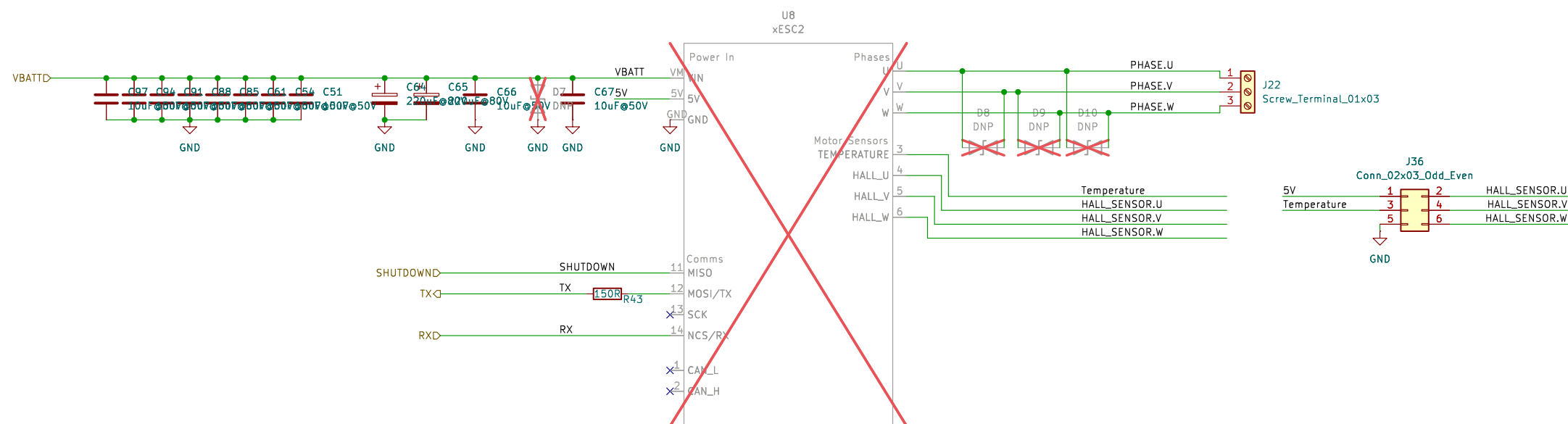
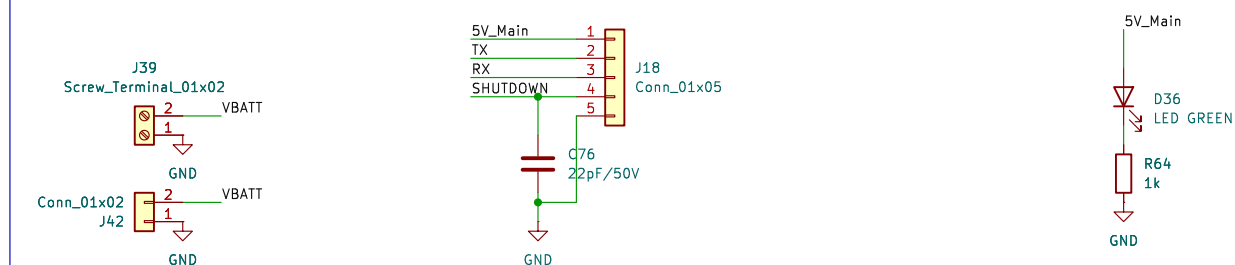


This is only necessary when splitting the PCB and using it in stand-alone operation.

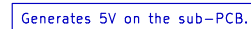
If you design an integrated solution, use the 5V from the main DCDC instead to save on cost and solution size.



Connectors to join the PCBs when separated.
All hierarchical inputs need to be here in order to restore the connections.

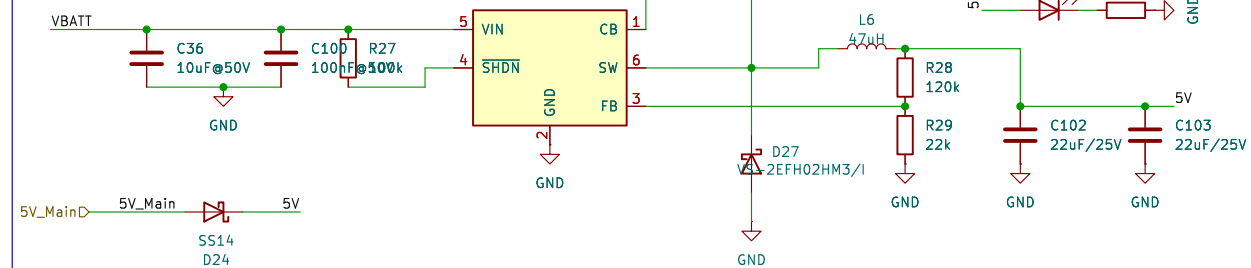


Dummy Symbol, Only for Assembly	U30 2.54mm 1x6 socket	Dummy Symbol, Only for Assembly	U18 2.54mm 2x2 socket
Dummy Symbol, Only for Assembly	U33 2.54mm 1x6 socket	Dummy Symbol, Only for Assembly	U21 2.54mm 2x2 socket
Dummy Symbol, Only for Assembly	U36 2.54mm 1x9 socket	Dummy Symbol, Only for Assembly	U24 2.54mm 2x2 socket
Dummy Symbol, Only for Assembly	U39 2.54mm 1x5 socket		

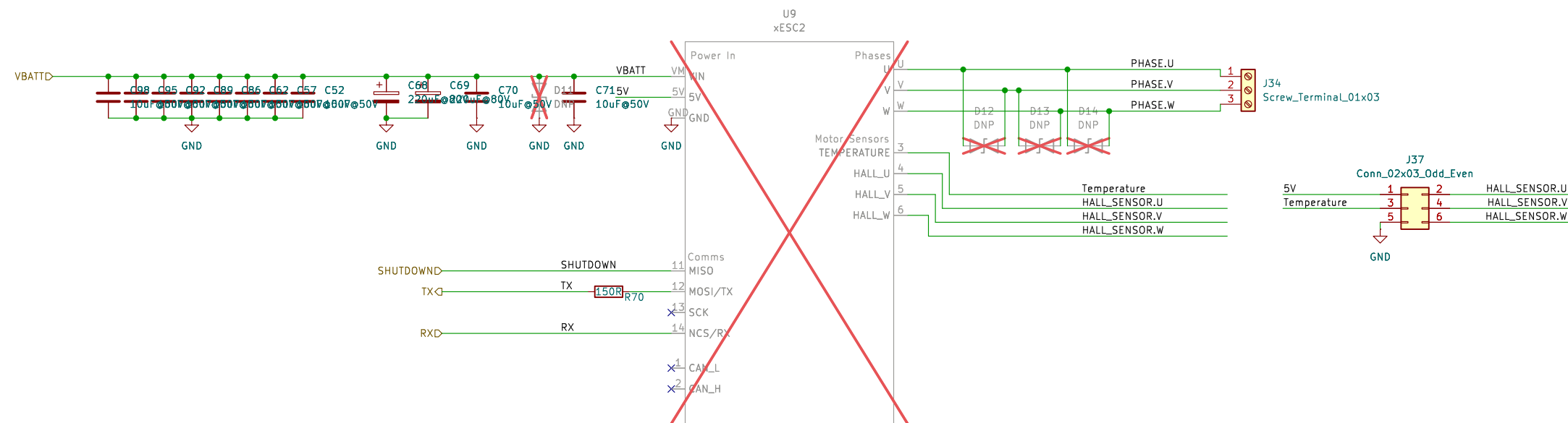
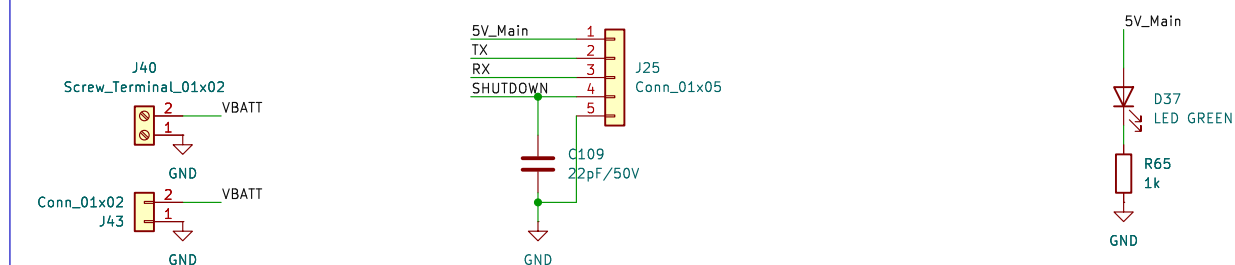


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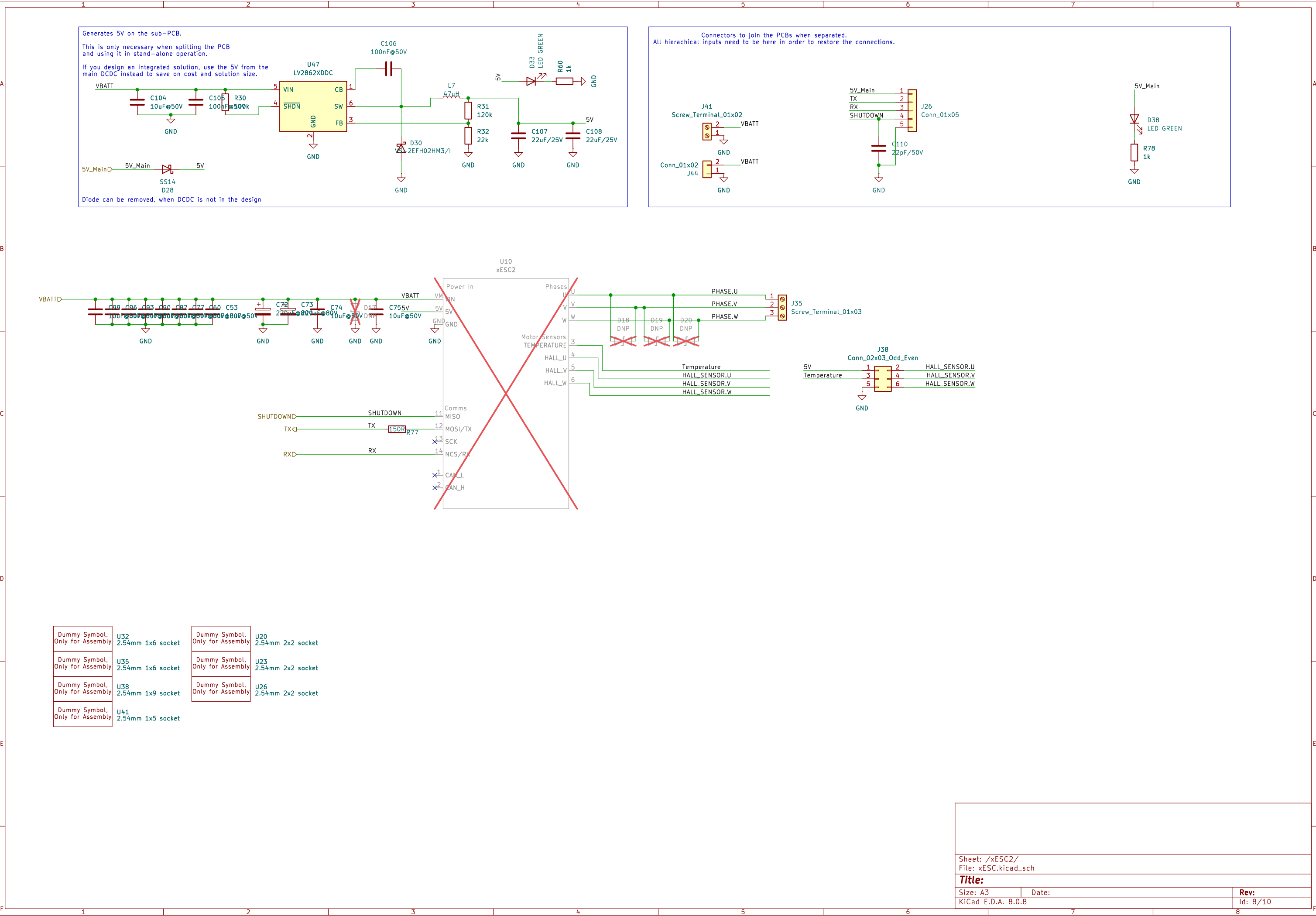
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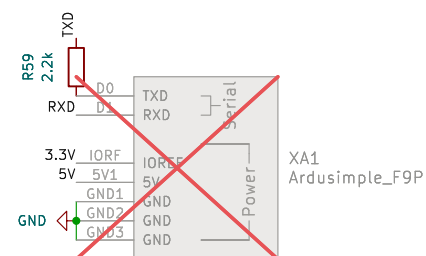
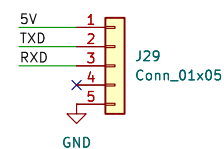
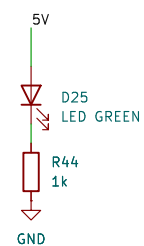


Connectors to join the PCBs when separated.
All hierarchical inputs need to be here in order to restore the connections.



Dummy Symbol, Only for Assembly	U31 2.54mm 1x6 socket	Dummy Symbol, Only for Assembly	U19 2.54mm 2x2 socket
Dummy Symbol, Only for Assembly	U34 2.54mm 1x6 socket	Dummy Symbol, Only for Assembly	U22 2.54mm 2x2 socket
Dummy Symbol, Only for Assembly	U37 2.54mm 1x9 socket	Dummy Symbol, Only for Assembly	U25 2.54mm 2x2 socket
Dummy Symbol, Only for Assembly	U40 2.54mm 1x5 socket		





Dummy symbols to generate positions and BOM entries for assembly

