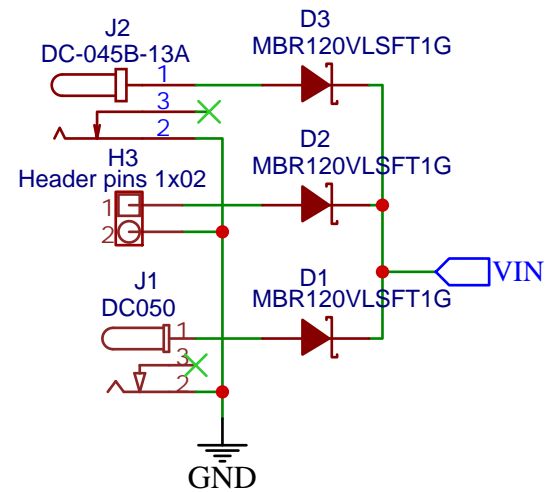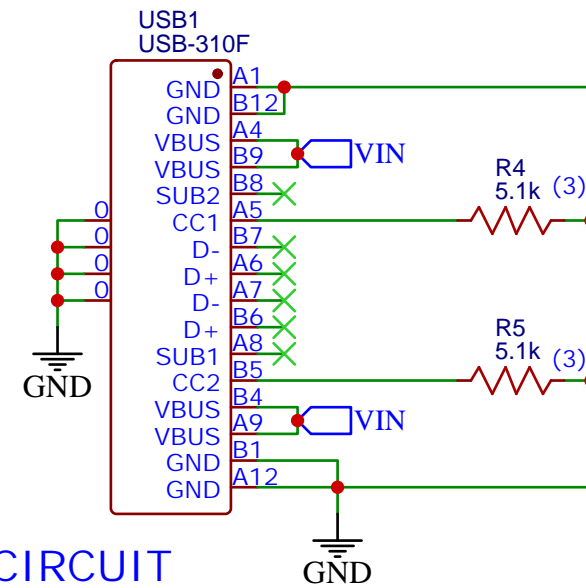IMPORTANT - I HAVE USED A TURORIAL IN THE SCHEMATICS PART ONLY - FOR THE PCB ITSELF ITS UNIQUE

Only RP4B Support

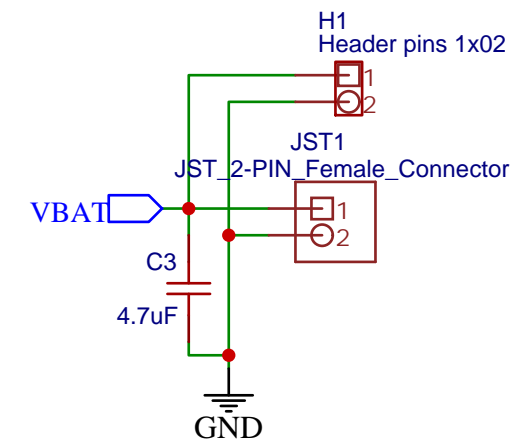## DC CONNECTORS

J2
DC-045B-13A

D3
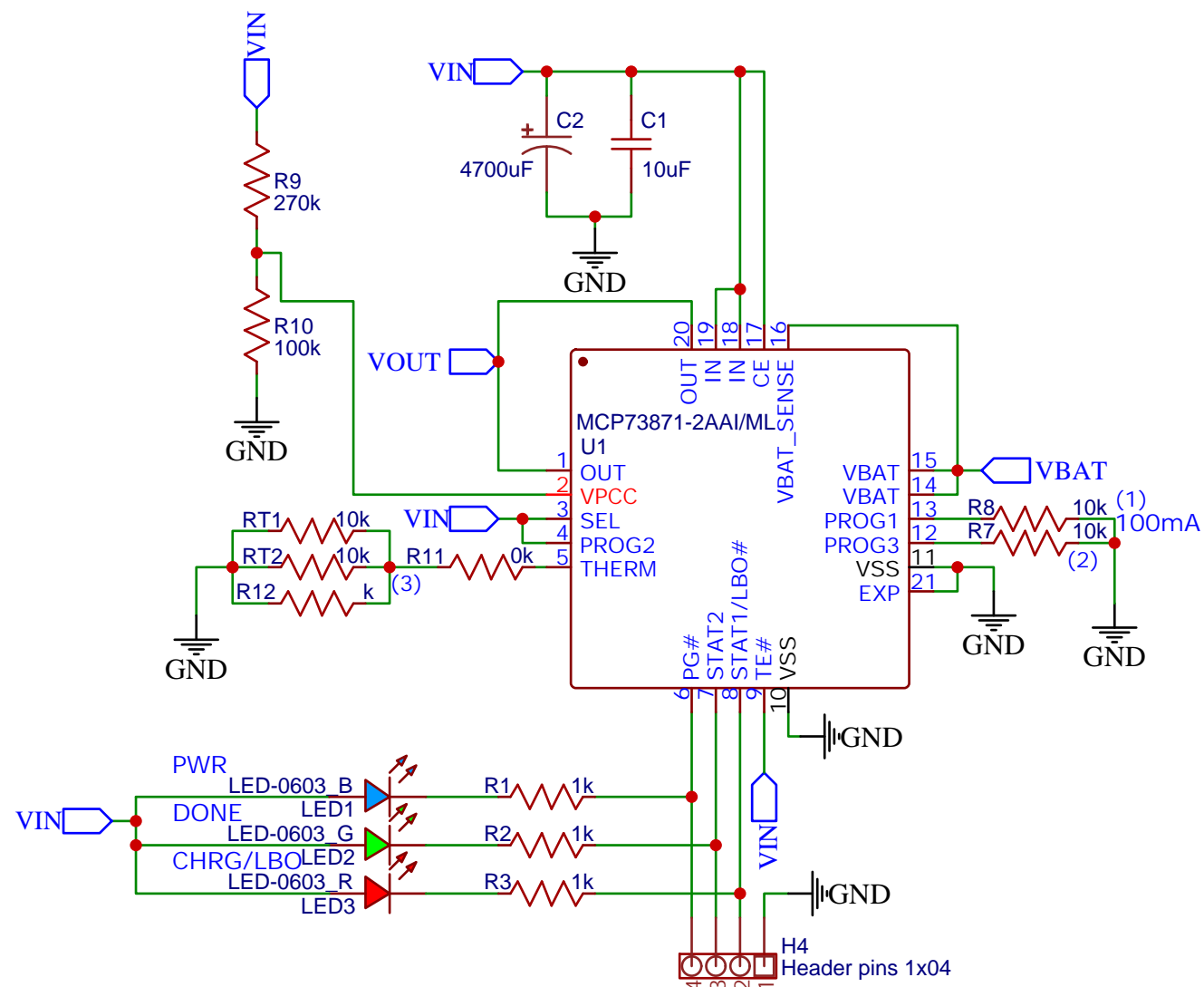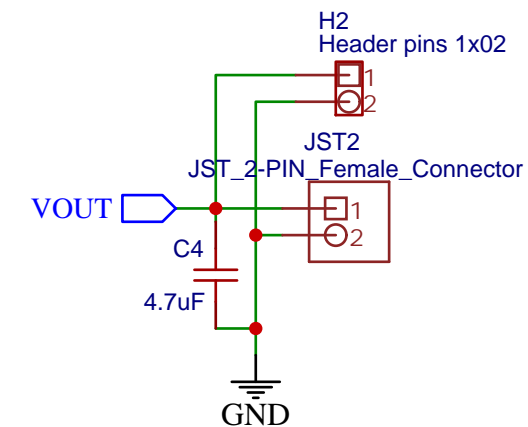MBR120VLSFT1G

H3
Header pins 1x02

D2
MBR120VLSFT1G

J1
DC050

D1
MBR120VLSFT1G

VIN

GND

USB-C

USB1
USB-310F

GND
GND
VBUS
VBUS — VIN
SUB2
CC1 — R4 5.1k (3)
D-
D+
D-
D+
SUB1
CC2 — R5 5.1k (3)
VBUS
VBUS — VIN
GND
GND

A1
B12
A4
B9
B8
A5
B7
A6
A7
B6
A8
B5
B4
A9
B1
A12

GND

BATTERY CONNECTORS

H1
Header pins 1x02

JST1
JST_2-PIN_Female_Connector

VBAT

C3
4.7uF

GND

RECHARGE CIRCUIT

VIN

R9
270k

R10
100k

VOUT

GND

VIN

C2
4700uF

C1
10uF

GND

U1
MCP73871-2AAI/ML

OUT
VPCC
SEL
PROG2
THERM

OUT
IN
IN
CE
VBAT_SENSE

20 19 18 17 16

1 OUT
2 VPCC
3 SEL
4 PROG2
5 THERM

VBAT 15
VBAT 14
PROG1 13
PROG3 12
VSS 11
EXP 21

R8 10k (1)
R7 10k
100mA
(2)

GND   GND

PG# STAT2 STAT1/LBO# TE# VSS
6   7   8   9   10

GND

RT1 10k
RT2 10k   VIN
R11 0k
R12 k (3)

GND

PWR
LED-0603_B LED1   R1 1k
DONE
VIN LED-0603_G LED2   R2 1k
CHRG/LBO LED-0603_R LED3   R3 1k

VIN

GND

GND

H4
Header pins 1x04

LOAD CONNECTORS

H2
Header pins 1x02

JST2
JST_2-PIN_Female_Connector

VOUT

C4
4.7uF

GND