Power Input

Power_Input.sch

Backup Supply 1

BackupSupply1.sch

Backup Supply 2
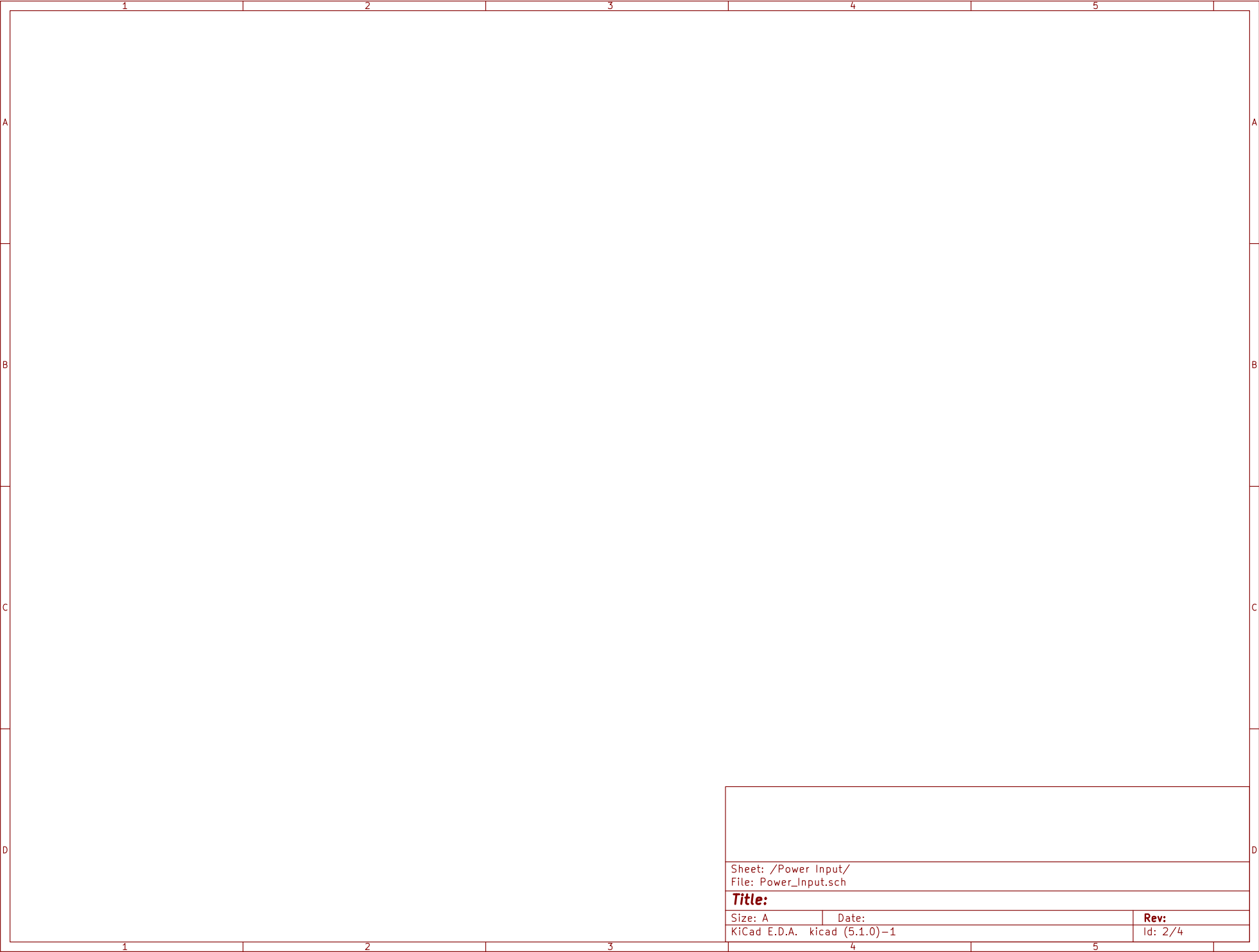
BackupSupply2.sch

Supercap Backup Circuit / Ideal Diodes
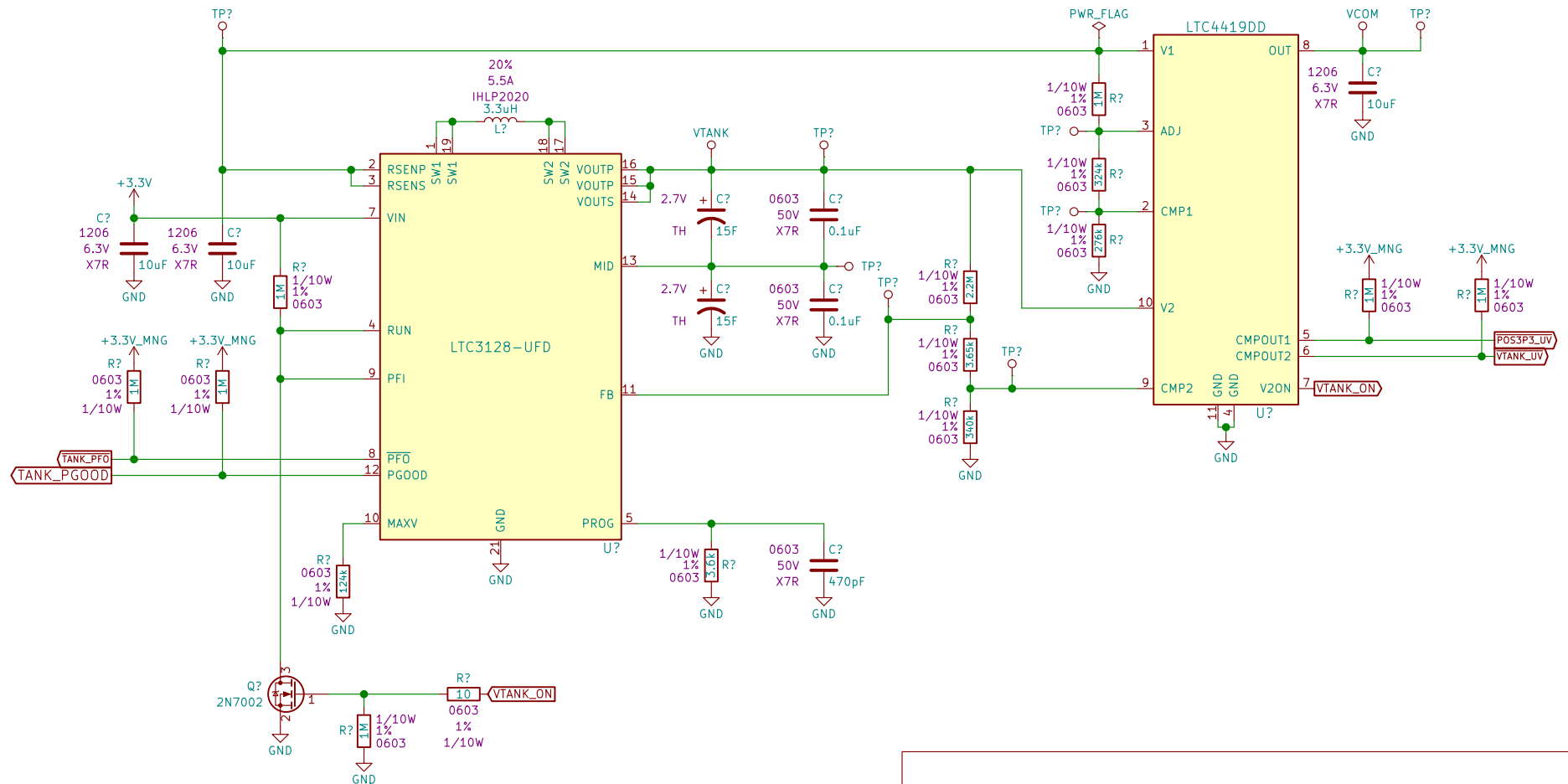
VTANK = 4.3V
V1_UV => VTANK = 2.31V
V2_UV => VTANK = 2.89V
Switchover => +3.3V = 2.805V

LTC4419DD

LTC3128-UFD

20%
5.5A
IHLP2020
3.3uH
L?

PWR_FLAG

VCOM
TP?

V1   OUT
ADJ
CMP1
V2
CMPOUT1
CMPOUT2
CMP2   V2ON
GND
GND
U?

1/10W
1% 1M
0603 R?

1/10W
1% 524k
0603 R?

1/10W
1% 276k
0603 R?

R?
1/10W
1% 2.2M
0603

R?
1/10W
1% 3.65k
0603

R?
1/10W
1% 340k
0603

1206
6.3V
X7R
C?
10uF
GND

+3.3V_MNG   +3.3V_MNG

R?
1M
1%
1/10W
0603

R?
1M
1%
1/10W
0603

POS3P3_UV
VTANK_UV

VTANK_ON

TP?

RSENP SW1
RSENS SW1
VIN
RUN
PFI
PFO
PGOOD
MAXV   GND   PROG

SW2 VOUTP
SW2 VOUTP
VOUTS
MID
FB

VTANK   TP?

2.7V   C?   0603   C?
TH   15F   50V   0.1uF
                   X7R
GND   GND

2.7V   C?   0603   C?
TH   15F   50V   0.1uF
                   X7R
GND   TP?   GND

+3.3V

C?
1206
6.3V
X7R
10uF
GND

1206
6.3V
X7R
C?
10uF
GND

R?
1/10W
1% 1M
0603

+3.3V_MNG   +3.3V_MNG

R?
0603
1%
1/10W
1M

R?
0603
1%
1/10W
1M

TANK_PFO
TANK_PGOOD

R?
0603
1%
1/10W
124k
GND

1/10W
1% 3.6k
0603 R?
GND

0603
50V
X7R
C?
470pF
GND

Q?
2N7002

R?
10
0603
1%
1/10W
VTANK_ON
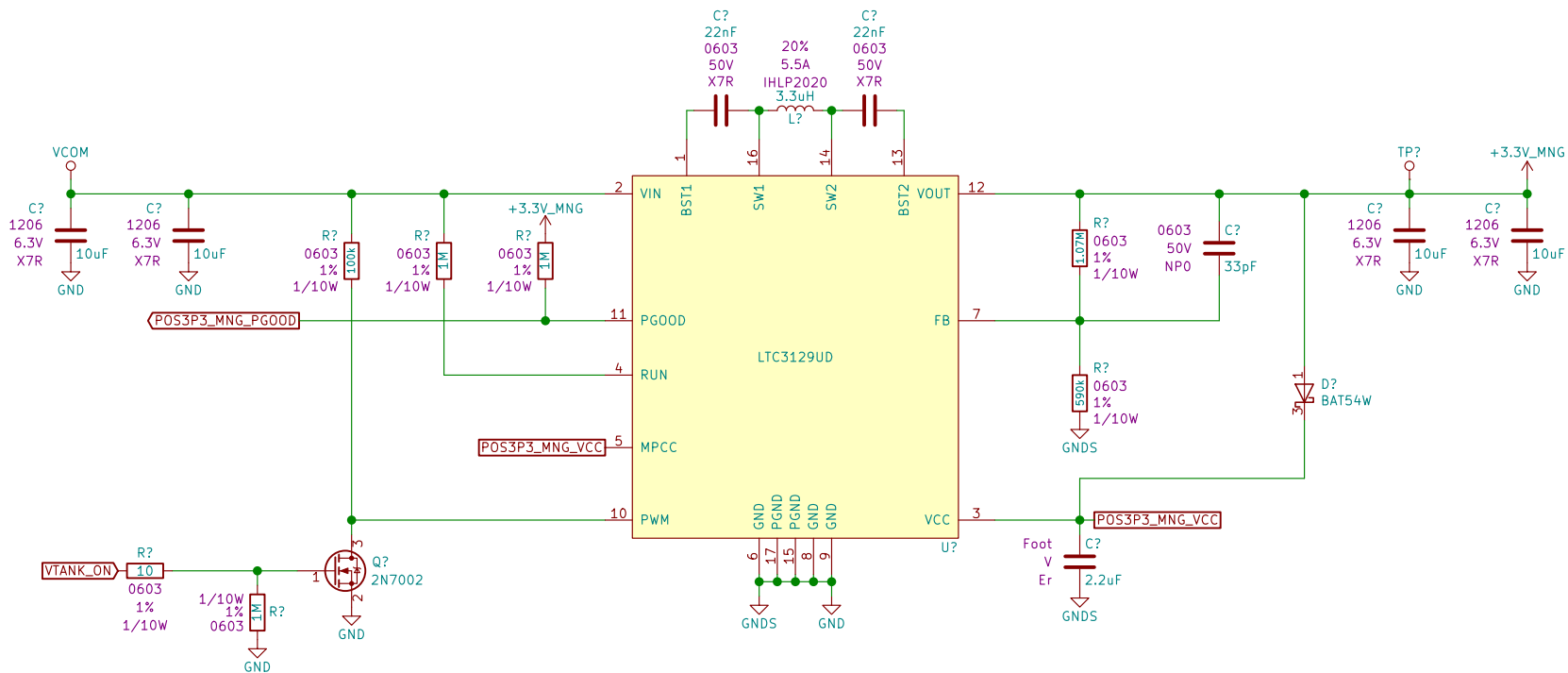
R?
1M
1%
0603
GND

GND

Sheet: /Backup Supply 1/
File: BackupSupply1.sch
Title:
Size: A   Date:
KiCad E.D.A. kicad (5.1.0)-1   Rev:
Id: 3/4

Sheet: /Backup Supply 2/
File: BackupSupply2.sch

Title:

Size: A · Date:
KiCad E.D.A. kicad (5.1.0)-1

Rev:
Id: 4/4