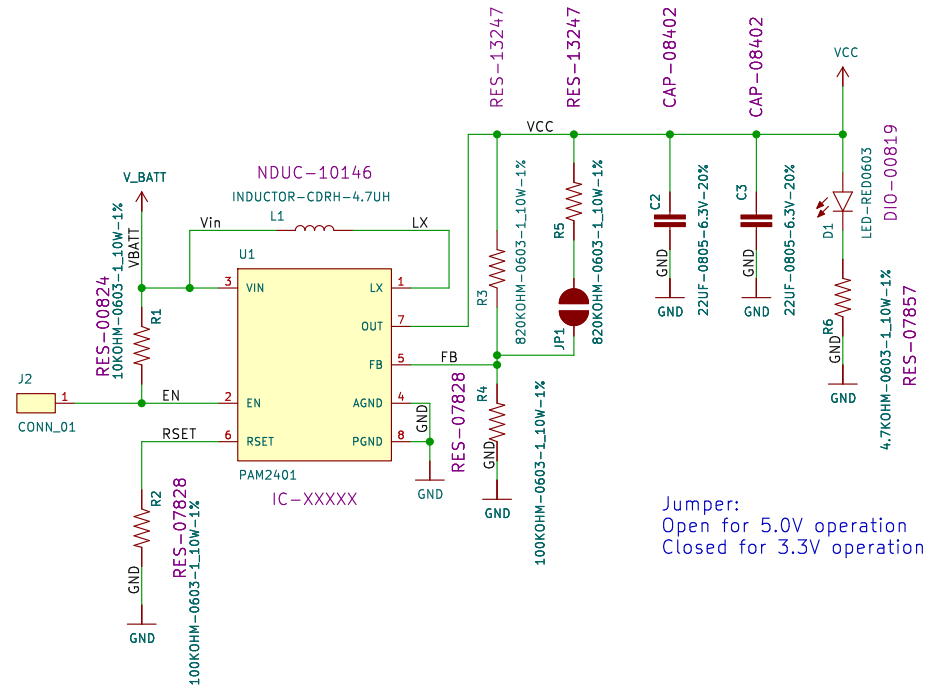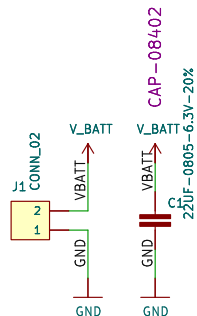# 1A Booster
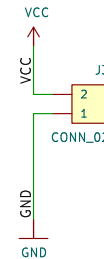
Input Range: 0.9 to 4.75V

For full output capacity, upwards of 3A may be required.
For max operation, calculate with $P=IV$, using 6 watts.
At 3.7V, Iin = 1.62A

Input

J1 CONN_02

CAP-08402
C1 22UF-0805-6.3V-20%

Output

NDUC-10146
INDUCTOR-CDRH-4.7UH
L1

U1
PAM2401
IC-XXXXX

VIN — LX 1
OUT 7
FB 5
EN 2 — AGND 4
RSET 6 — PGND 8

J2 CONN_01

RES-00824
R1 10KOHM-0603-1_10W-1%

RES-07828
R2 100KOHM-0603-1_10W-1%

RES-07828
R3 100KOHM-0603-1_10W-1%

RES-13247
R4 820KOHM-0603-1_10W-1%

RES-13247
R5 820KOHM-0603-1_10W-1%

CAP-08402
C2 22UF-0805-6.3V-20%

CAP-08402
C3 22UF-0805-6.3V-20%

R4 100KOHM-0603-1_10W-1%

LED-RED0603
D1 DIO-00819

R6 4.7KOHM-0603-1_10W-1%
RES-07857

JP1

Jumper:
Open for 5.0V operation
Closed for 3.3V operation

J3 CONN_02

XXX-00000

XXX-00000

XXX-00000

SparkFun Engineering
Sheet: /
File: working.kicad_sch
Title: 1A Booster
Size: A4   Date: 2017-07-11   Rev: v01
KiCad E.D.A. eeschema 7.0.6   Id: 1/1

sparkfun
open hardware