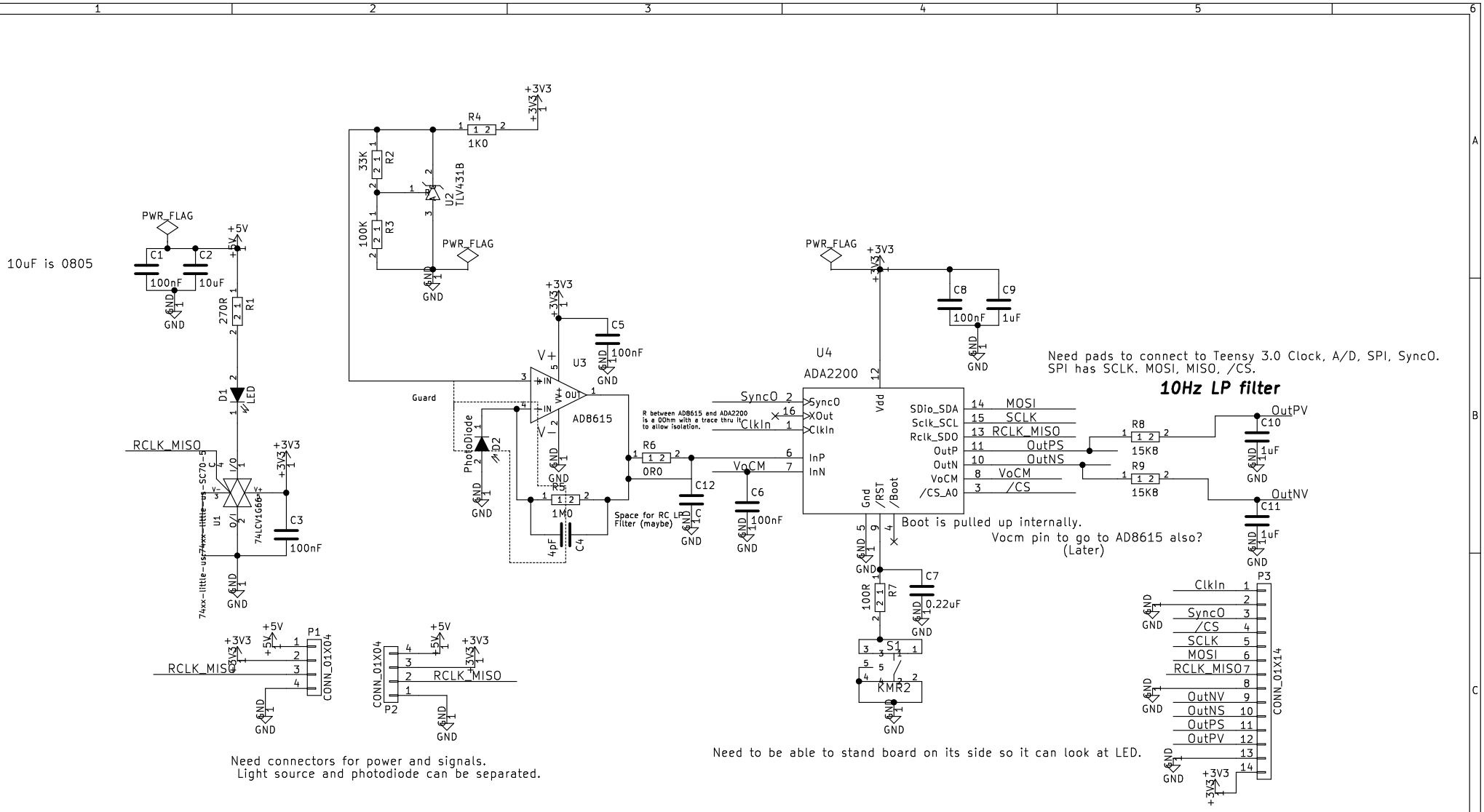
10uF is 0805
PWR_FLAG
+5V
C1
C2
100nF
10uF
GND
270R
R1
D1
LED
RCLK_MISO
+3V3
U1
74LCV1G66
C3
100nF
74xx-little-us
SC70-5
P1
CONN_01X04
P2
R4
1K0
33K
R2
100K
R3
U2
TLV431B
C5
100nF
U3
AD8615
Guard
PhotoDiode
D2
R5
1M0
4pF
C4
R6
0R0
C12
C6
100nF
Space for RC LP Filter (maybe)
R between AD8615 and ADA2200 is a 00hm with a trace thru it to allow isolation.
U4
ADA2200
SyncO
XOut
ClkIn
InP
InN
Vdd
Gnd
/RST
/Boot
SDio_SDA
Sclk_SCL
Rclk_SDO
OutP
OutN
VoCM
/CS_A0
MOSI
SCLK
RCLK_MISO
OutPS
OutNS
VoCM
/CS
C8
100nF
C9
1uF
Need pads to connect to Teensy 3.0 Clock, A/D, SPI, SyncO.
SPI has SCLK. MOSI, MISO, /CS.
10Hz LP filter
R8
15K8
R9
15K8
OutPV
OutNV
C10
1uF
C11
1uF
Boot is pulled up internally.
Vocm pin to go to AD8615 also?
(Later)
R7
100R
C7
0.22uF
S1
KMR2
P3
CONN_01X14
Need connectors for power and signals.
Light source and photodiode can be separated.
Need to be able to stand board on its side so it can look at LED.
Sheet: /
File: Lock_In.sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. kicad 4.0.0-rc1-stable
Id: 1/1