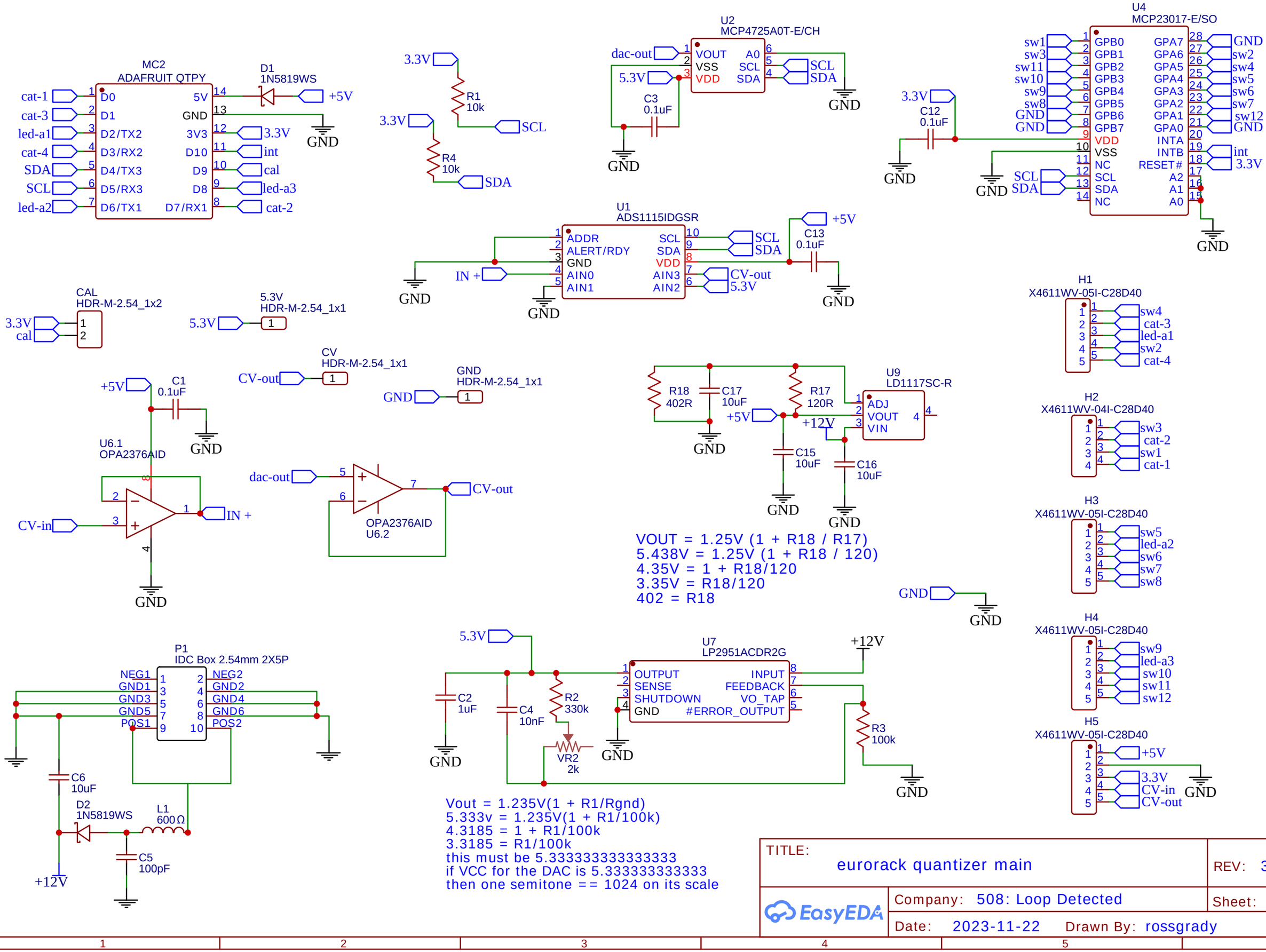
MC2
ADAFRUIT QTPY
cat-1
cat-3
led-a1
cat-4
SDA
SCL
led-a2
D0
D1
D2/TX2
D3/RX2
D4/TX3
D5/RX3
D6/TX1
5V
GND
3V3
D10
D9
D8
D7/RX1
D1
1N5819WS
+5V
3.3V
int
cal
led-a3
cat-2
GND
3.3V
R1
10k
SCL
R4
10k
SDA
U2
MCP4725A0T-E/CH
dac-out
5.3V
VOUT
VSS
VDD
A0
SCL
SDA
C3
0.1uF
U4
MCP23017-E/SO
sw1
sw3
sw11
sw10
sw9
sw8
GND
GND
GPB0
GPB1
GPB2
GPB3
GPB4
GPB5
GPB6
GPB7
VDD
VSS
NC
SCL
SDA
NC
GPA7
GPA6
GPA5
GPA4
GPA3
GPA2
GPA1
GPA0
INTA
INTB
RESET#
A2
A1
A0
sw2
sw4
sw5
sw6
sw7
sw12
int
3.3V
C12
0.1uF
U1
ADS1115IDGSR
ADDR
ALERT/RDY
GND
AIN0
AIN1
SCL
SDA
VDD
AIN3
AIN2
IN +
CV-out
5.3V
C13
0.1uF
+5V
CAL
HDR-M-2.54_1x2
3.3V
cal
5.3V
HDR-M-2.54_1x1
CV
HDR-M-2.54_1x1
CV-out
GND
HDR-M-2.54_1x1
H1
X4611WV-05I-C28D40
sw4
cat-3
led-a1
sw2
cat-4
H2
X4611WV-04I-C28D40
sw3
cat-2
sw1
cat-1
H3
X4611WV-05I-C28D40
sw5
led-a2
sw6
sw7
sw8
H4
X4611WV-05I-C28D40
sw9
led-a3
sw10
sw11
sw12
H5
X4611WV-05I-C28D40
+5V
3.3V
CV-in
CV-out
+5V
C1
0.1uF
U6.1
OPA2376AID
CV-in
IN +
dac-out
OPA2376AID
U6.2
CV-out
R18
402R
C17
10uF
R17
120R
+5V
+12V
U9
LD1117SC-R
ADJ
VOUT
VIN
C15
10uF
C16
10uF
VOUT = 1.25V (1 + R18 / R17)
5.438V = 1.25V (1 + R18 / 120)
4.35V = 1 + R18/120
3.35V = R18/120
402 = R18
P1
IDC Box 2.54mm 2X5P
NEG1
GND1
GND3
GND5
POS1
NEG2
GND2
GND4
GND6
POS2
C6
10uF
D2
1N5819WS
L1
600Ω
C5
100pF
+12V
5.3V
C2
1uF
C4
10nF
R2
330k
VR2
2k
U7
LP2951ACDR2G
OUTPUT
SENSE
SHUTDOWN
GND
INPUT
FEEDBACK
VO_TAP
#ERROR_OUTPUT
+12V
R3
100k
Vout = 1.235V(1 + R1/Rgnd)
5.333v = 1.235V(1 + R1/100k)
4.3185 = 1 + R1/100k
3.3185 = R1/100k
this must be 5.333333333333333
if VCC for the DAC is 5.333333333333
then one semitone == 1024 on its scale
TITLE:
eurorack quantizer main
REV: 3.0
Company: 508: Loop Detected
Sheet: 1/1
Date: 2023-11-22
Drawn By: rossgrady
EasyEDA