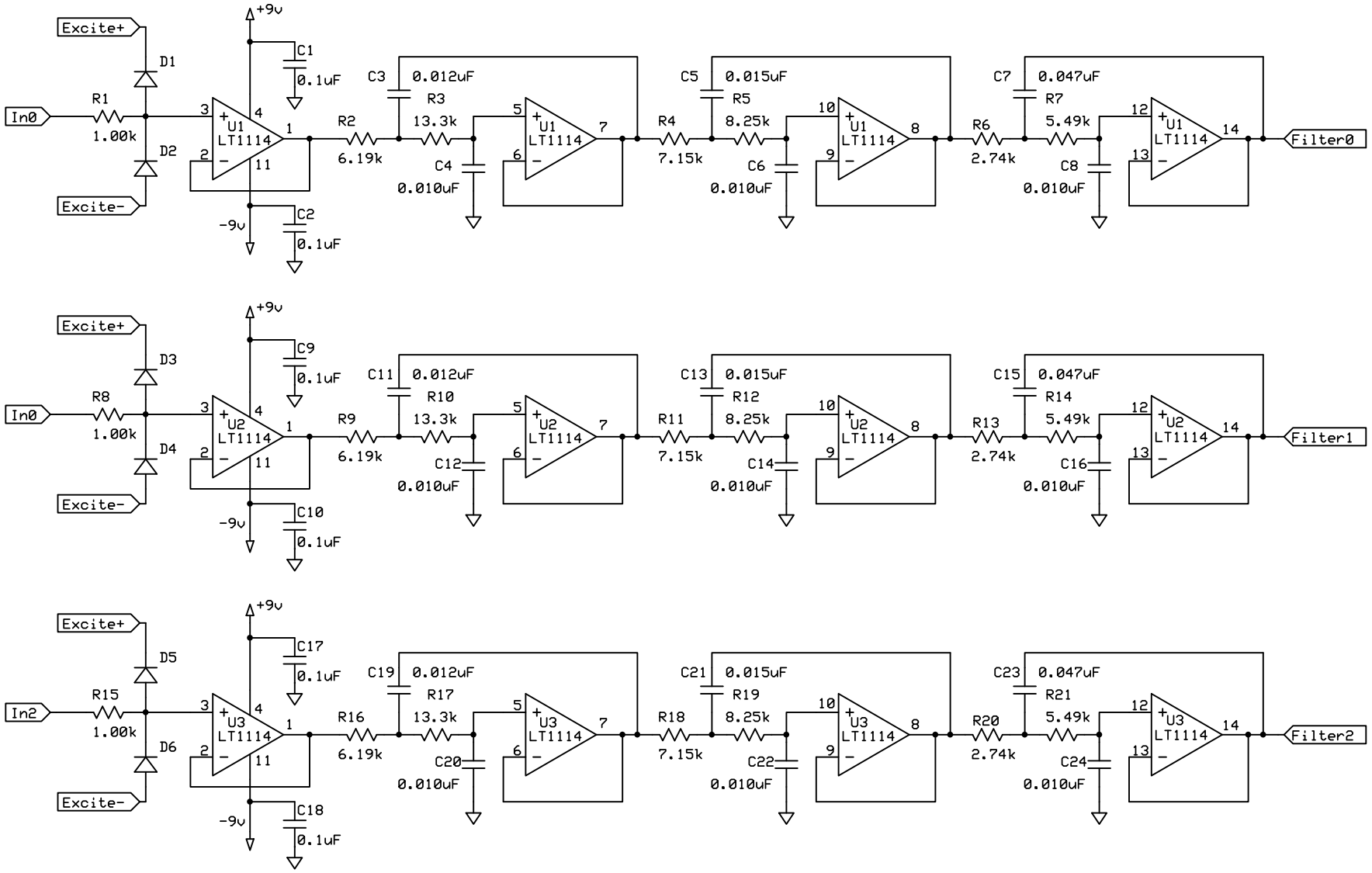

Note: All components on this page are 1% tolerance.

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DAQ Filters		
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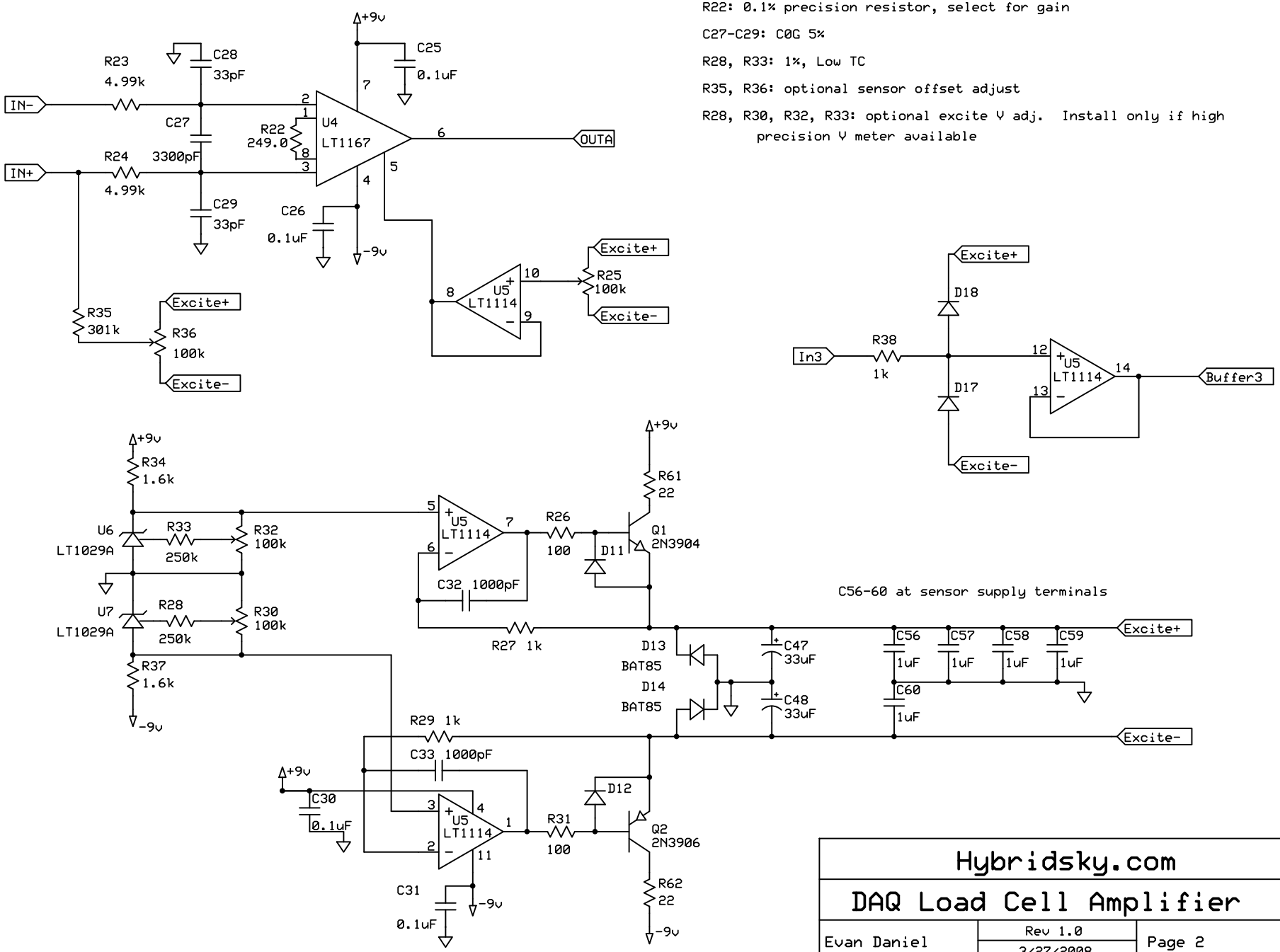
R22: 0.1% precision resistor, select for gain
C27-C29: C0G 5%
R28, R33: 1%, Low TC
R35, R36: optional sensor offset adjust
R28, R30, R32, R33: optional excite V adj. Install only if high precision V meter available
+9v
C28
33pF
C25
0.1uF
R23
4.99k
IN-
C27
3300pF
R22
249.0
U4
LT1167
OUTA
IN+
R24
4.99k
C29
33pF
C26
0.1uF
-9v
R35
301k
R36
100k
Excite+
Excite-
U5
LT1114
R25
100k
In3
R38
1k
D18
D17
Buffer3
U6
LT1029A
U7
LT1029A
R34
1.6k
R33
250k
R32
100k
R28
250k
R30
100k
R37
1.6k
R61
22
R26
100
Q1
2N3904
D11
C32 1000pF
R27 1k
D13
BAT85
D14
BAT85
C47
33uF
C48
33uF
C56-60 at sensor supply terminals
C56
C57
C58
C59
C60
1uF
R29 1k
C33 1000pF
C30
0.1uF
C31
0.1uF
R31
100
D12
Q2
2N3906
R62
22
Hybridsky.com
DAQ Load Cell Amplifier
Evan Daniel
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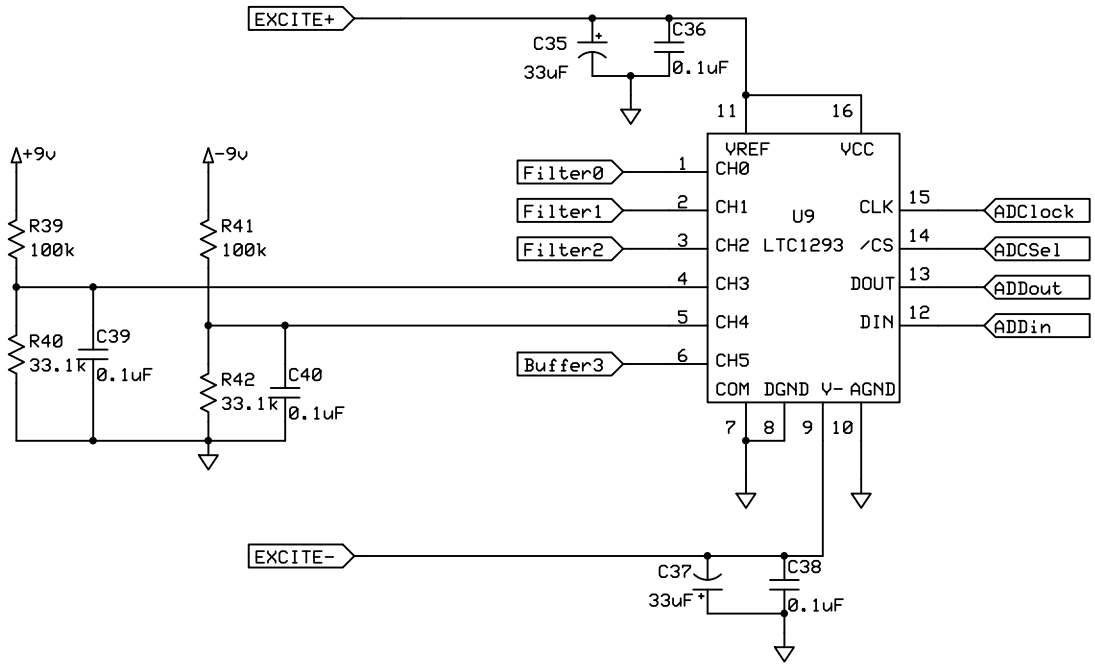

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DAQ A/D Converter		
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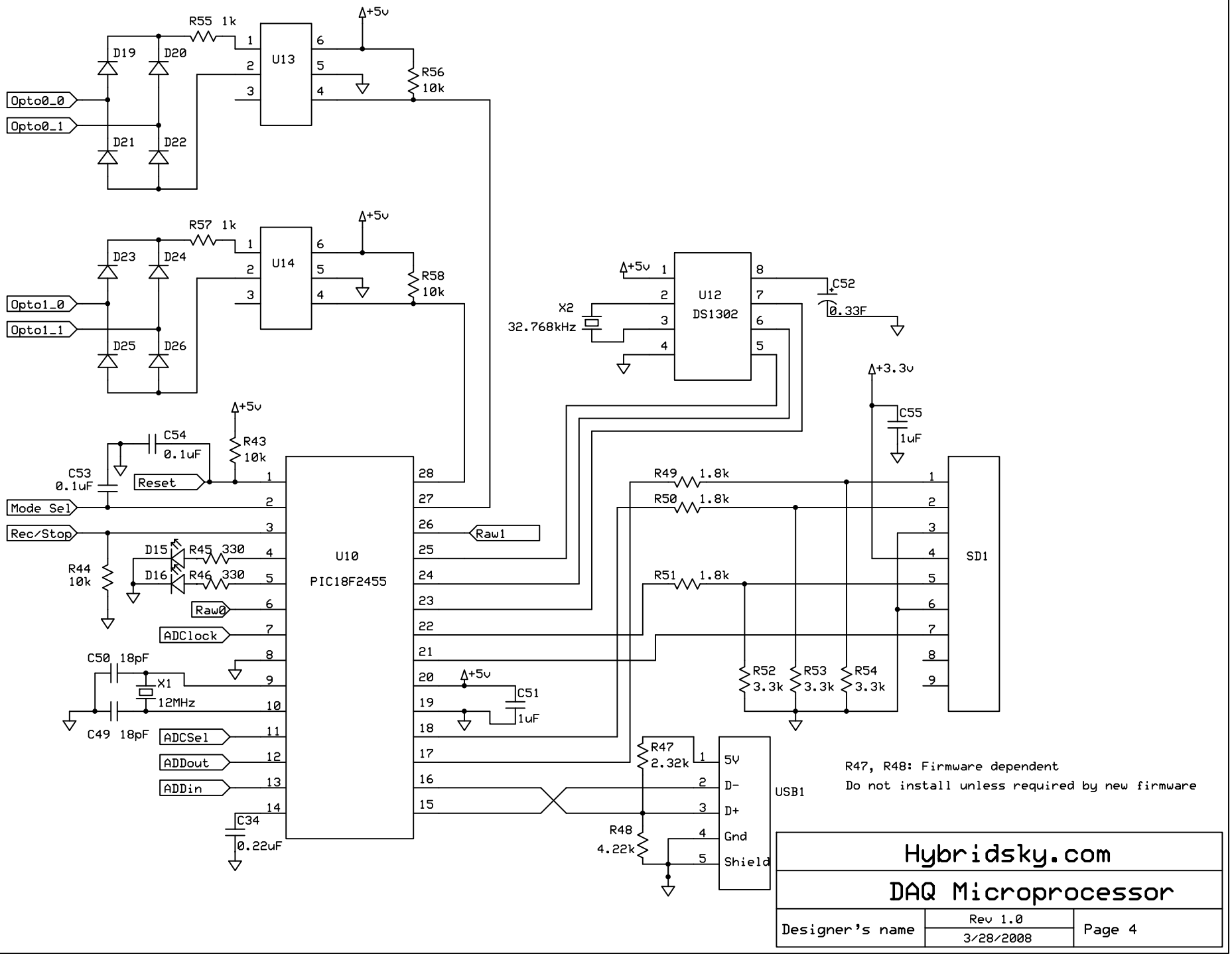
R55 1k
U13
+5v
R56
10k
D19
D20
D21
D22
Opto0_0
Opto0_1
R57 1k
U14
R58
10k
D23
D24
D25
D26
Opto1_0
Opto1_1
U12
DS1302
X2
32.768kHz
C52
0.33F
+3.3v
C55
1uF
C54
0.1uF
R43
10k
C53
0.1uF
Reset
Mode Sel
Rec/Stop
R44
10k
D15
D16
R45 330
R46 330
Raw0
ADClock
ADCSel
ADDout
ADDin
C50 18pF
X1
12MHz
C49 18pF
C34
0.22uF
U10
PIC18F2455
Raw1
C51
1uF
R49 1.8k
R50 1.8k
R51 1.8k
R52
3.3k
R53
3.3k
R54
3.3k
SD1
R47
2.32k
R48
4.22k
USB1
5V
D-
D+
Gnd
Shield
R47, R48: Firmware dependent
Do not install unless required by new firmware
Hybridsky.com
DAQ Microprocessor
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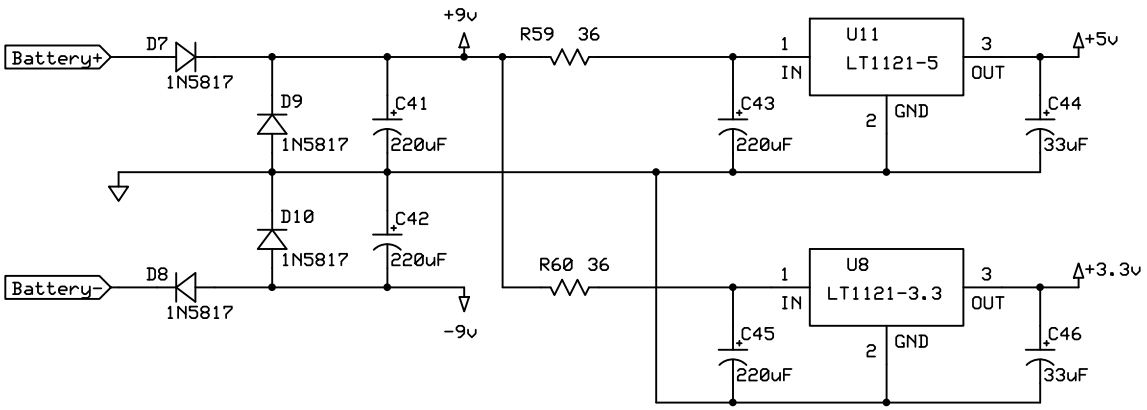

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DAQ 5.0V and 3.3V Power		
Designer's name	Rev 1.0 4/6/2008	Page 5