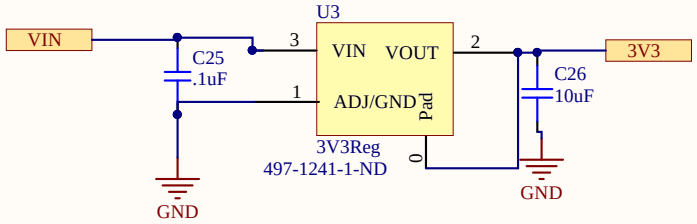

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Date: 7/31/2020		Sheet of
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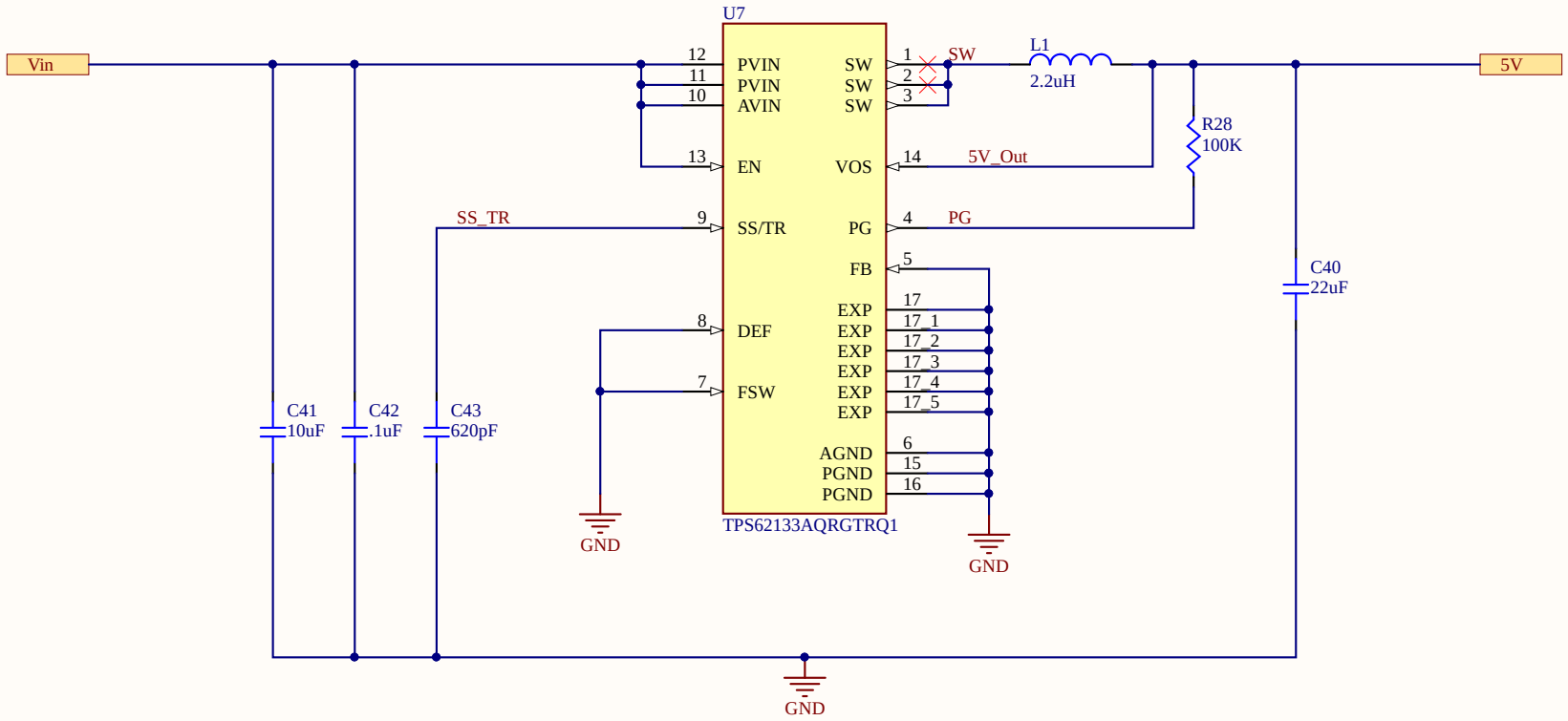

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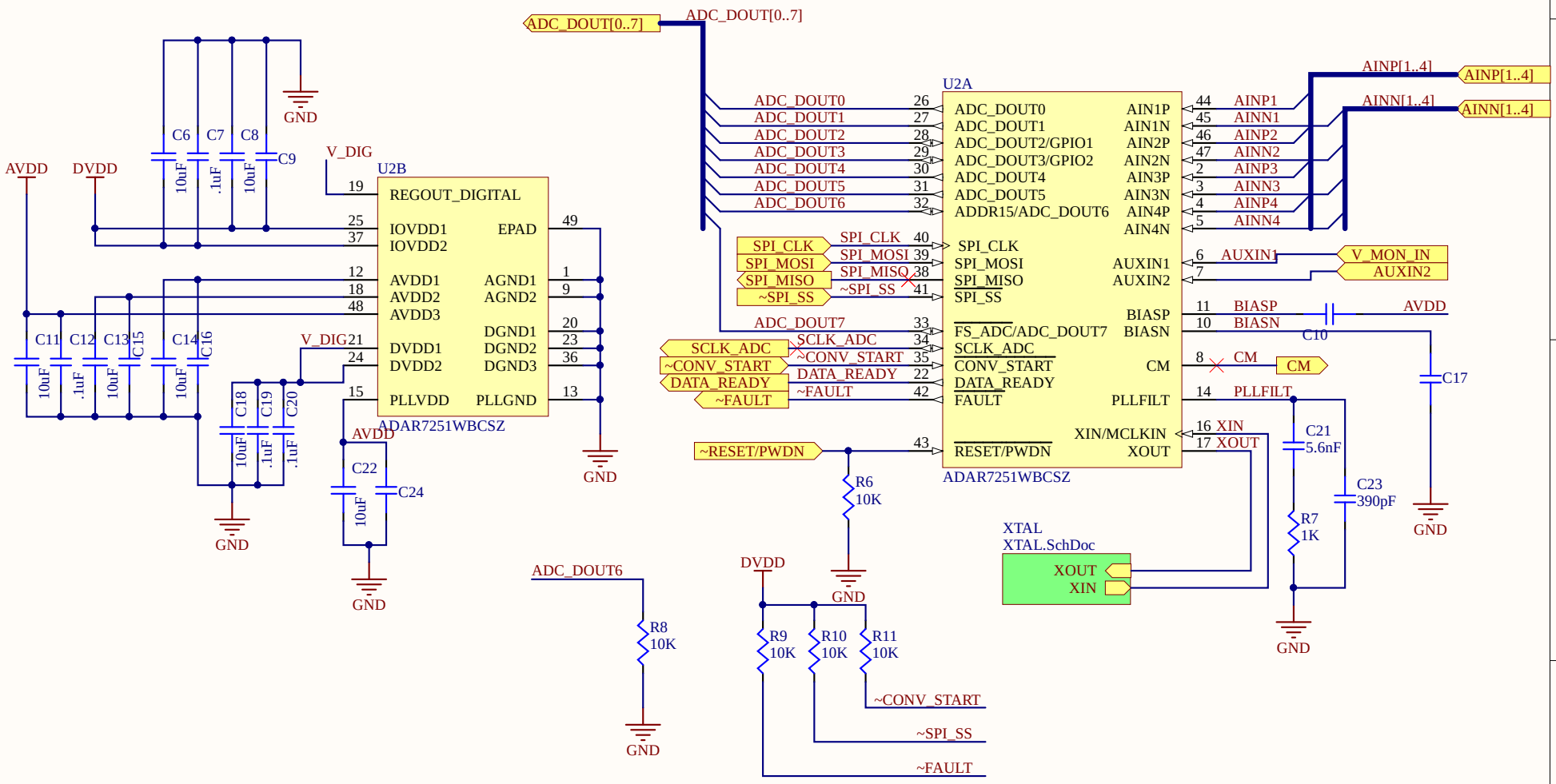
ADC_DOUT[0..7]
ADC_DOUT[0..7]
U2A
U2B
ADAR7251WBCSZ
ADAR7251WBCSZ
AINP[1..4]
AINN[1..4]
AINP[1..4]
AINN[1..4]
V_DIG
V_DIG
AVDD
DVDD
GND
REGOUT_DIGITAL
IOVDD1
IOVDD2
AVDD1
AVDD2
AVDD3
DVDD1
DVDD2
PLLVDD
EPAD
AGND1
AGND2
DGND1
DGND2
DGND3
PLLGND
ADC_DOUT0
ADC_DOUT1
ADC_DOUT2/GPIO1
ADC_DOUT3/GPIO2
ADC_DOUT4
ADC_DOUT5
ADDR15/ADC_DOUT6
ADC_DOUT7
FS_ADC/ADC_DOUT7
SCLK_ADC
CONV_START
DATA_READY
FAULT
RESET/PWDN
SPI_CLK
SPI_MOSI
SPI_MISO
SPI_SS
AIN1P
AIN1N
AIN2P
AIN2N
AIN3P
AIN3N
AIN4P
AIN4N
AUXIN1
AUXIN2
BIASP
BIASN
CM
PLLFILT
XIN/MCLKIN
XOUT
AINP1
AINN1
AINP2
AINN2
AINP3
AINN3
AINP4
AINN4
V_MON_IN
AUXIN2
C6
C7
C8
C9
C11
C12
C13
C15
C14
C16
C18
C19
C20
C22
C24
C10
C17
C21
5.6nF
C23
390pF
R6
10K
R7
1K
R8
10K
R9
10K
R10
10K
R11
10K
~CONV_START
~SPI_SS
~FAULT
~RESET/PWDN
XTAL
XTAL.SchDoc
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Date:
7/31/2020
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of
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C:\Users\..\ADC.SchDoc
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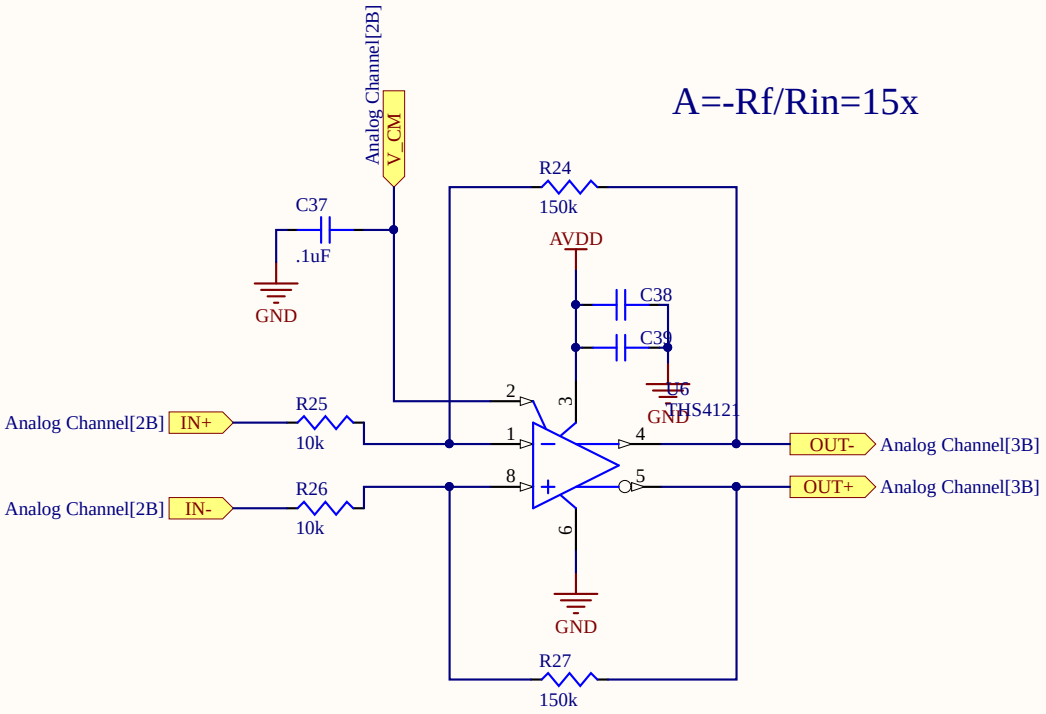

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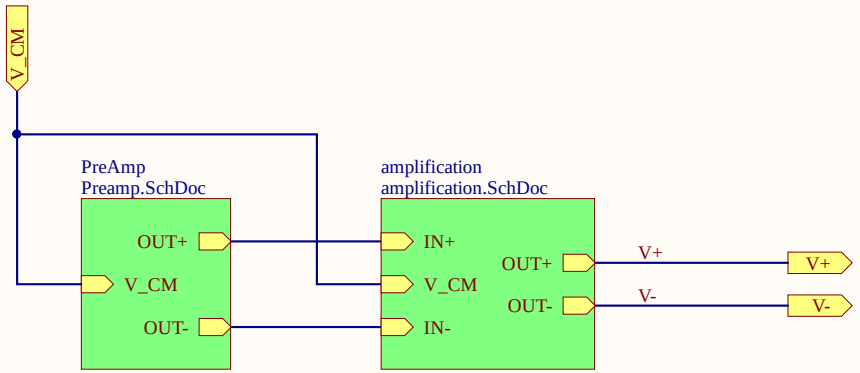

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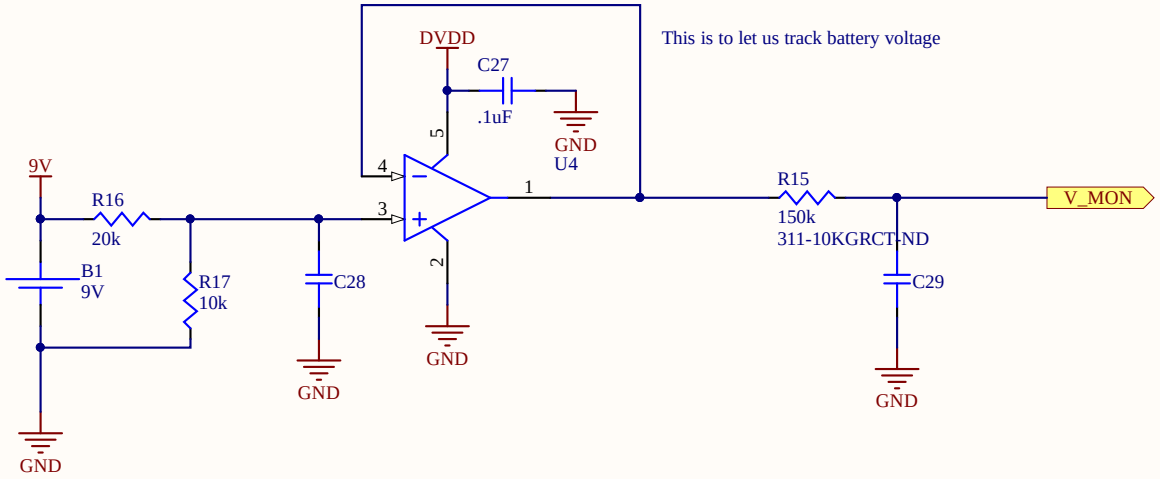

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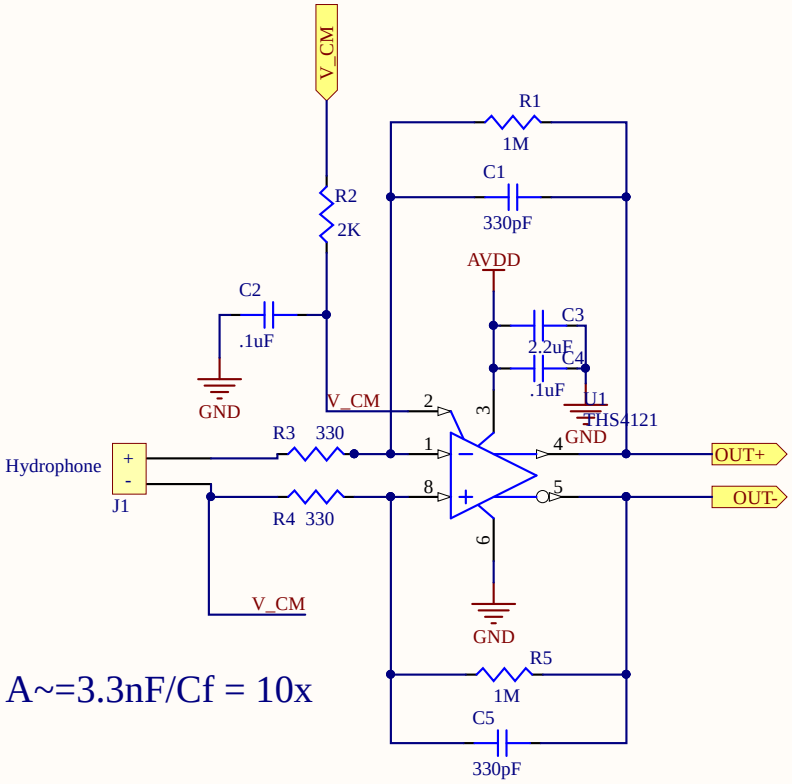

Cutoff frequency f_H = 1/(2pi*Ri*(Cp+Cc))

Assumming Cc = 0, f_H = 146kHz

f_L = 1/(2pi*Rf*Cf) = 482 Hz

Title		
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Date: 7/31/2020		Sheet of
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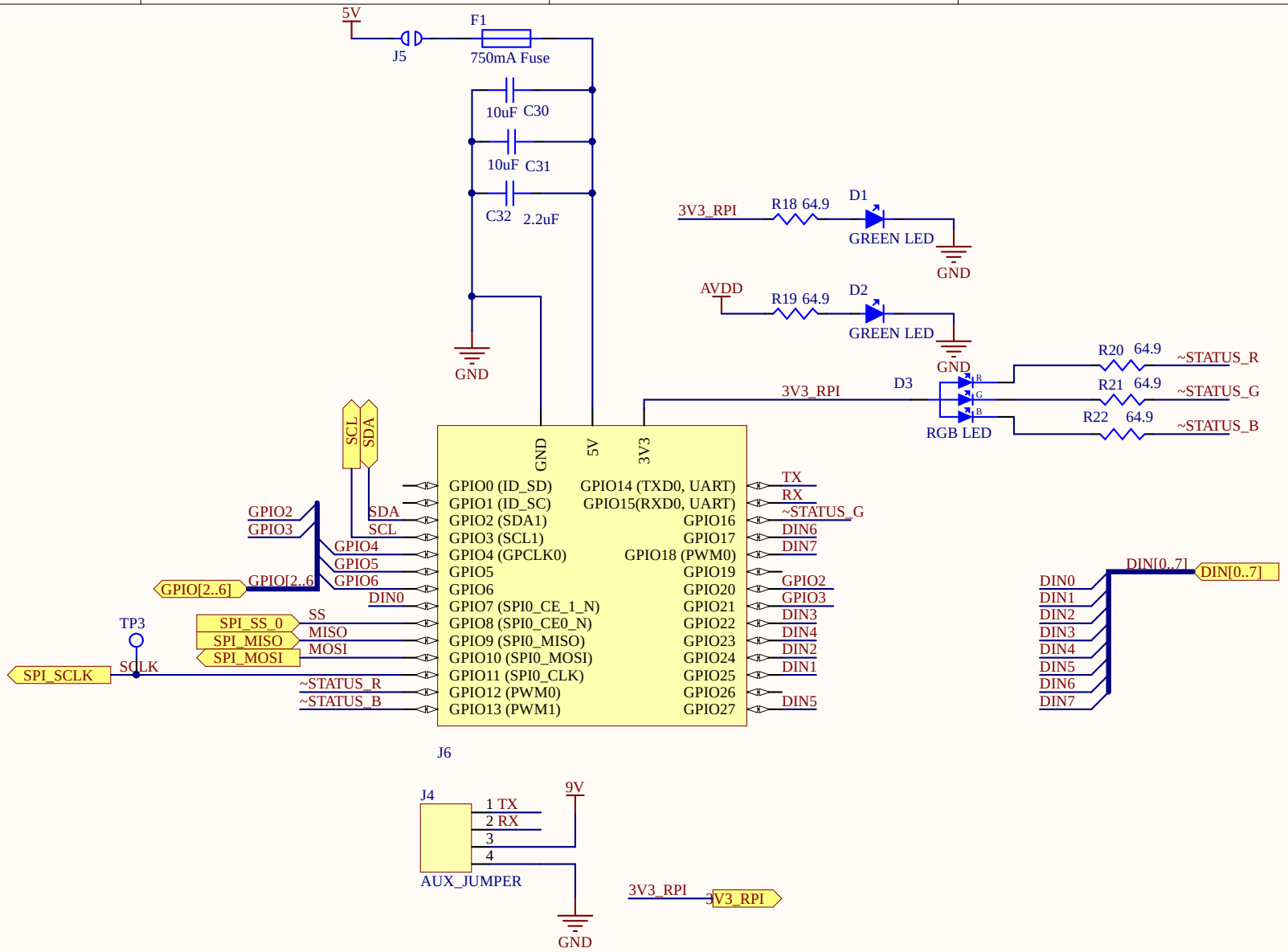

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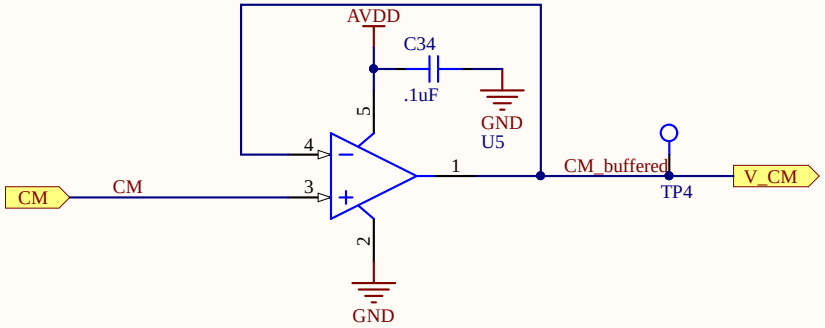

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Size: A	Number	Revision
Date: 7/31/2020		Sheet of
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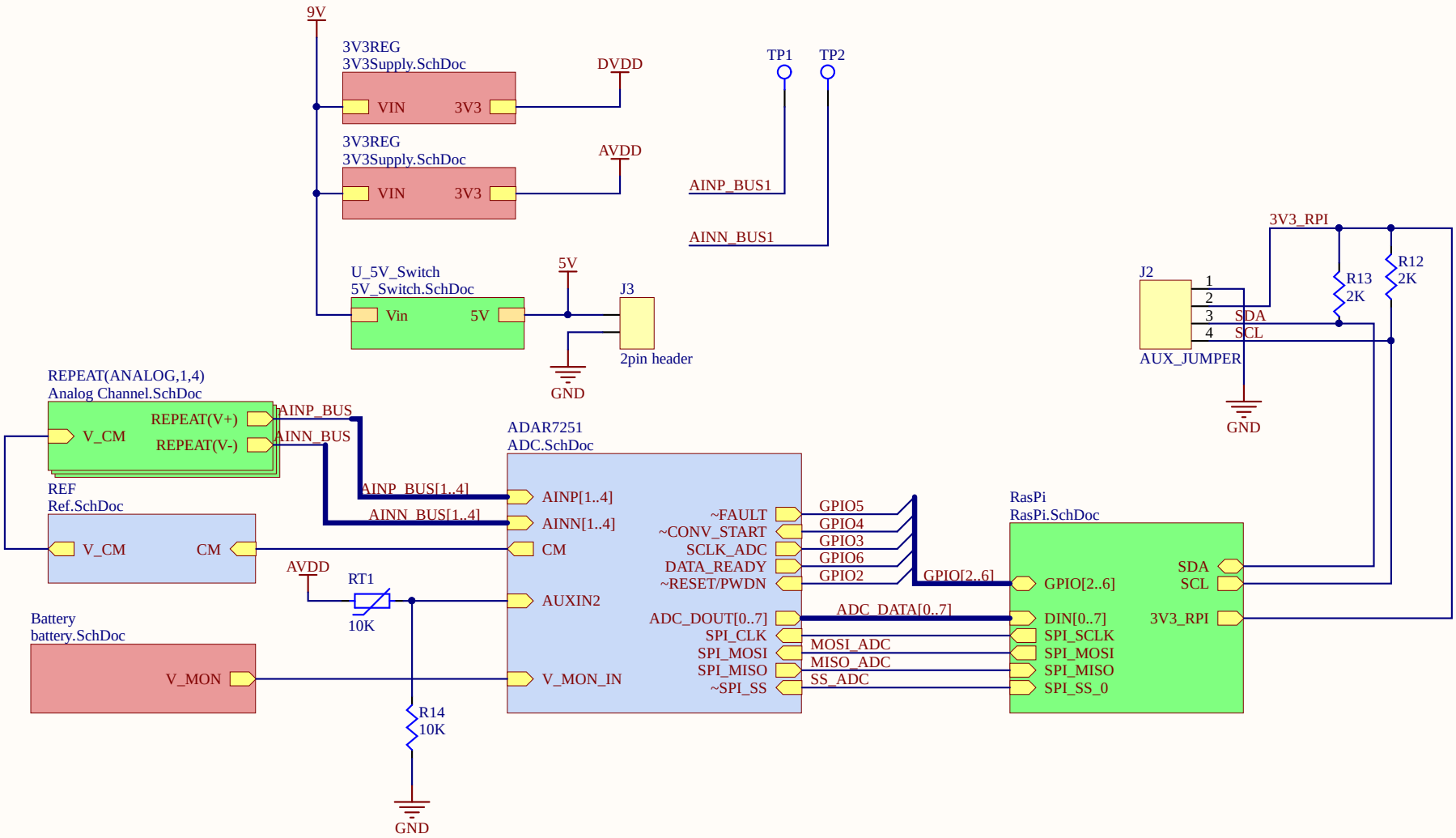

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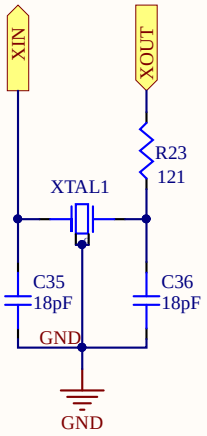

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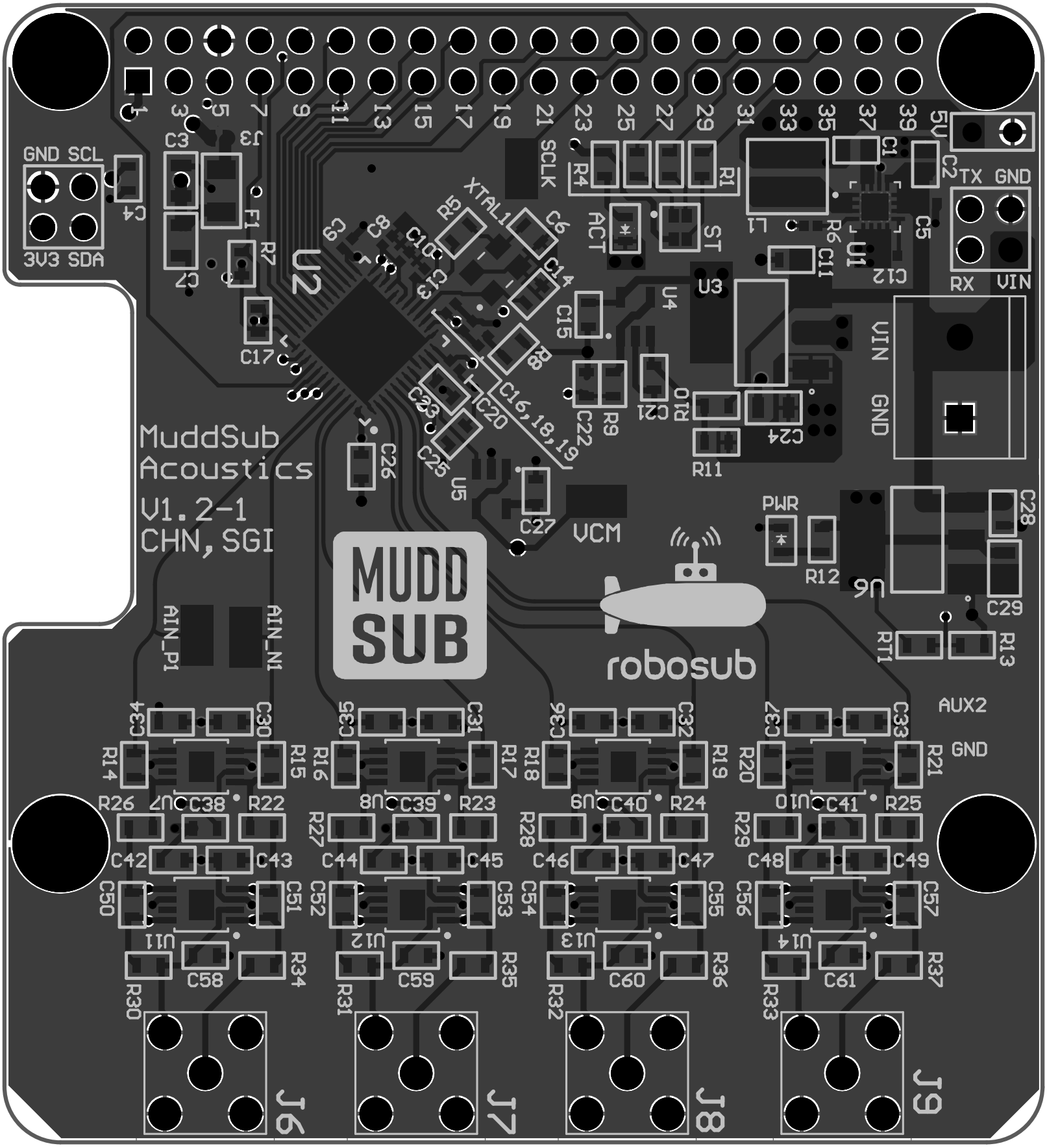
MuddSub
Acoustics
V1.2-1
CHN, SGI
MUDD
SUB
robosub
GND SCL
3V3 SDA
TX GND
RX VIN
5V
SCLK
XTAL1
ACT
ST
PWR
VCM
VIN GND
AUX2
GND
AIN_P1
AIN_N1
J6
J7
J8
J9
U2
U1
U3
U4
U5
U6
U7
U8
U9
U10
U11
U12
U13
U14