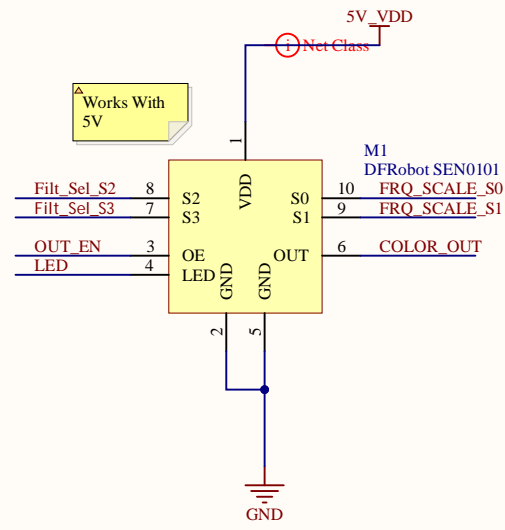


# Color Sensor



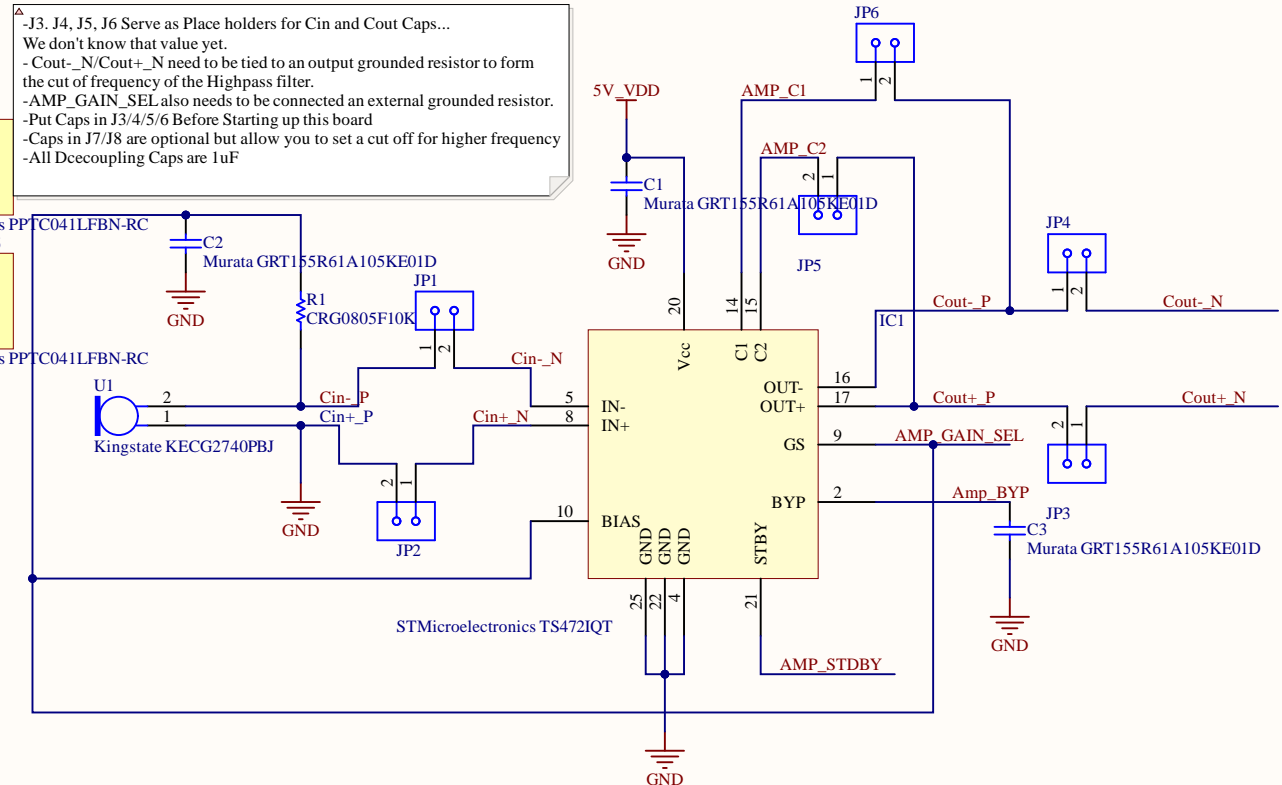
CON5

COLOR_OUT	1
Filt_Sel_S3	2
Filt_Sel_S2	3
FRQ_SCALE_S1	4

CON6

FRQ_SCALE_S0	1
OUT_EN	2
LED	3
LED	4

-J3, J4, J5, J6 Serve as Place holders for Cin and Cout Caps...  
 We don't know that value yet.  
 - Cout-\_N/Cout+\_N need to be tied to an output grounded resistor to form the cut of frequency of the Highpass filter.  
 -AMP\_GAIN\_SEL also needs to be connected an external grounded resistor.  
 -Put Caps in J3/4/5/6 Before Starting up this board  
 -Caps in J7/J8 are optional but allow you to set a cut off for higher frequency  
 -All Decoupling Caps are 1uF



CON3

AMP_GAIN_SEL	1
Cout-_N	2
Cout+_N	3
AMP_STDBY	4

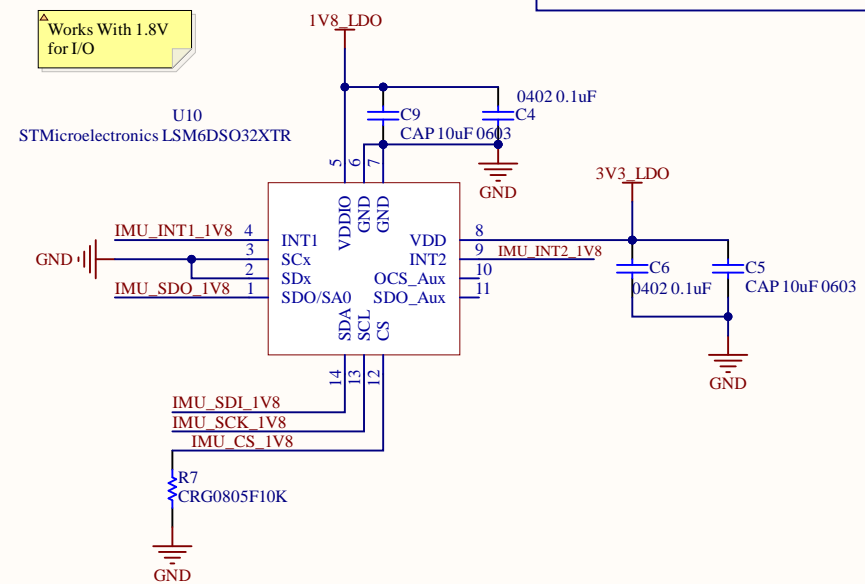
Sullins PPTC041LFBN-RC

CON4

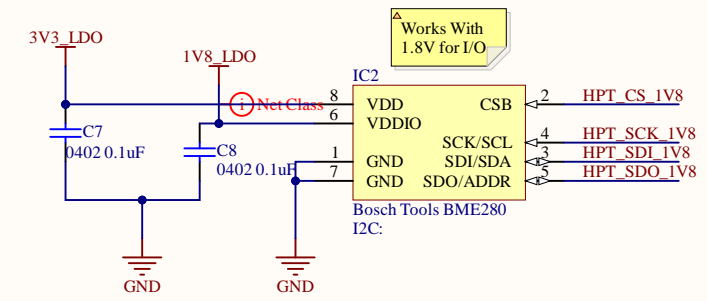
HPT_CS_5V	1
HPT_SCK_5V	2
HPT_SDI_5V	3
HPT_SDO_5V	4

Sullins PPTC041LFBN-RC

# IMU Module



# Humidity, Pressure & Temp Sensor

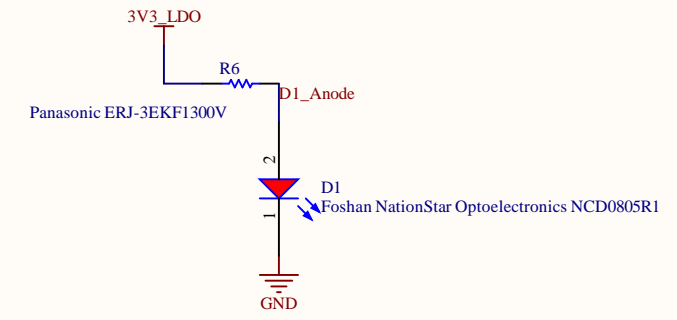
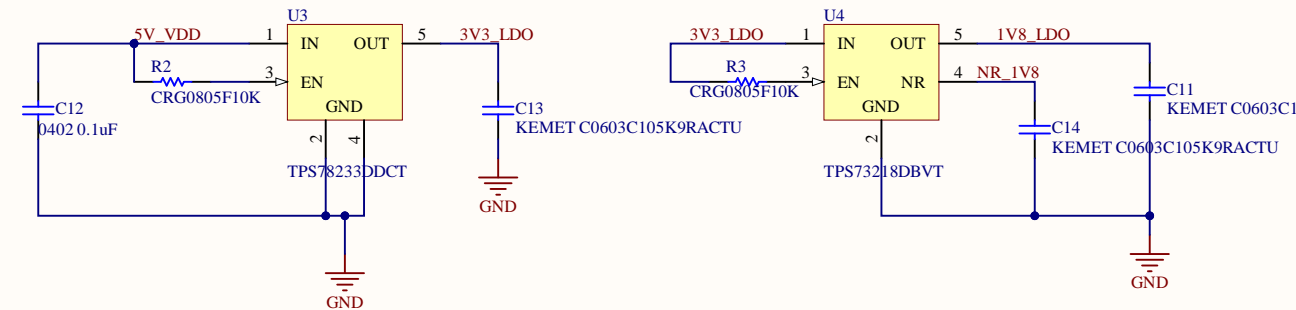


J2

IMU_INT1_5V	6
IMU_SDO_5V	5
IMU_SDI_5V	4
IMU_SCK_5V	3
IMU_CS_5V	2
IMU_INT2_5V	1

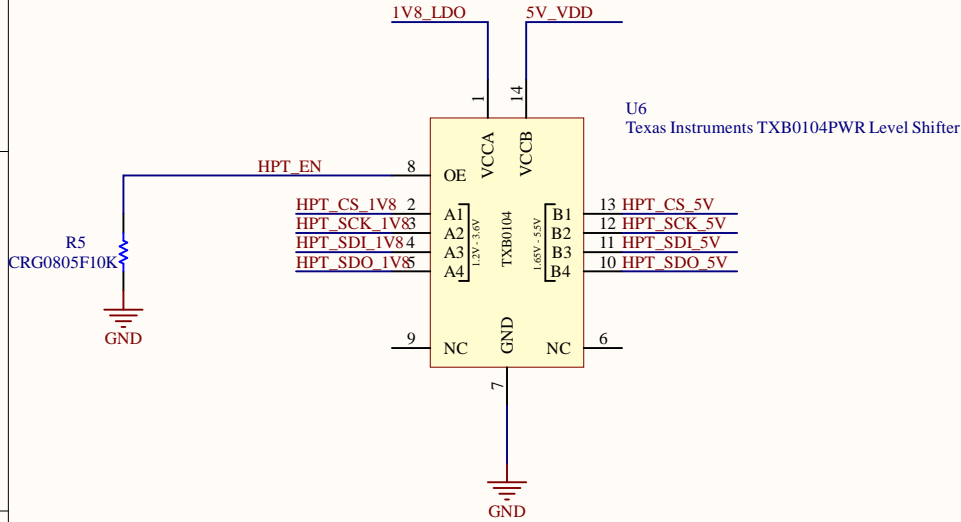
Sullins PPTC061LFBN-RC

# 3V3 & 1V8 LDO

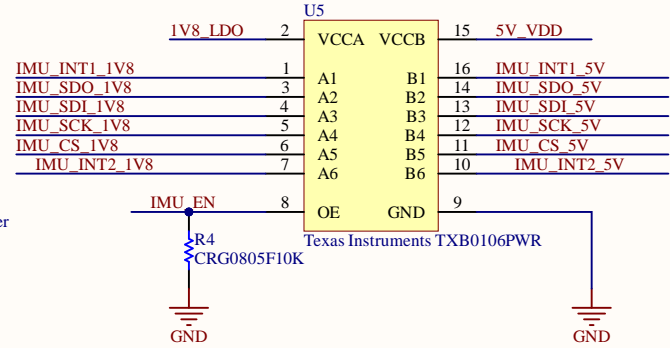


Title		
Size	Number	Revision
B		
Date:	10/28/2023	Sheet of
File:	Shield.SchDoc	Drawn By:

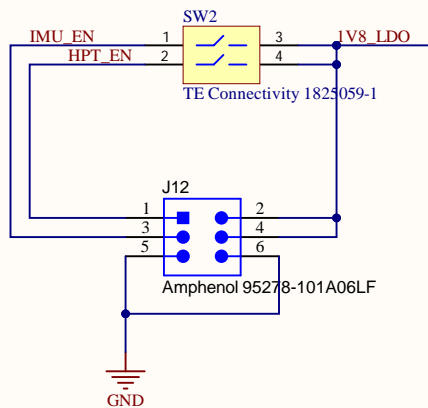
## HPT Sensor Level Shifter (5V to 1V8)



## IMU Level Shifter (5V to 1V8)



## Level Shifter Enable Control



Title		
Size	Number	Revision
A		
Date:	10/28/2023	Sheet of
File:	Shield_LVL_Shifters.SchDoc	Drawn By: