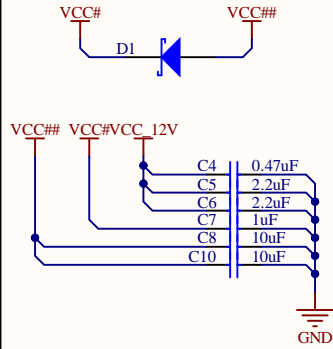
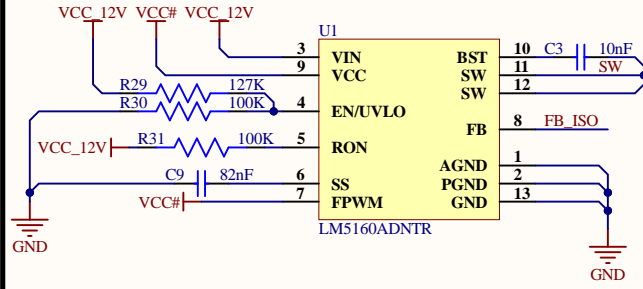


DECOUPLING CAPS

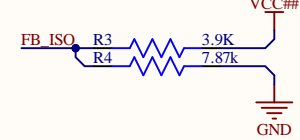


12V-3.8V ISOLATED BUCK CONVERTER

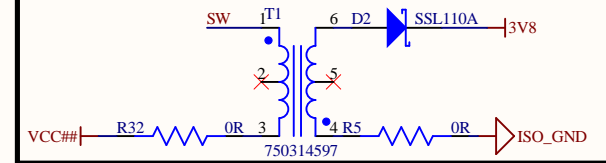


Primary side output voltage would be 5.7 for a 3.8V VSec ($NP/Ns=V_{pri}/V_{sec}$)
 FB resistors $R_{F2}=3.7K$ and $R_{F1}=2K$.
 Max current of this transformer is 840mA. (suggested in datasheet)

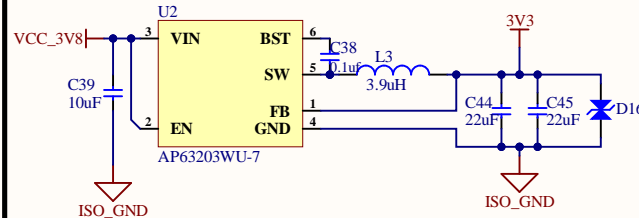
FEEDBACK NETWORK



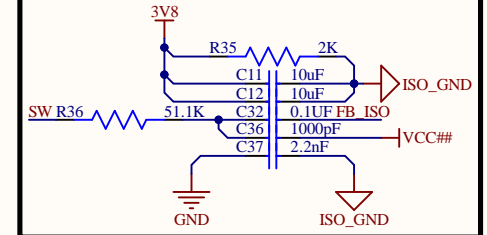
FLYBACK TRANSFORMER



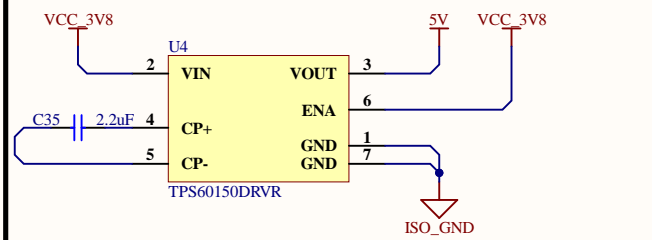
3.8-3.3V LINEAR REGULATOR



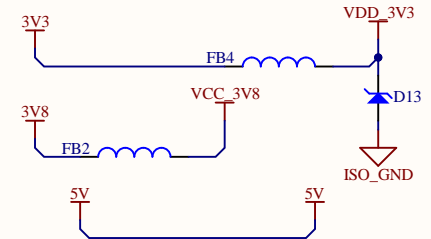
SUPPORTING CIRCUIT



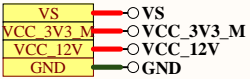
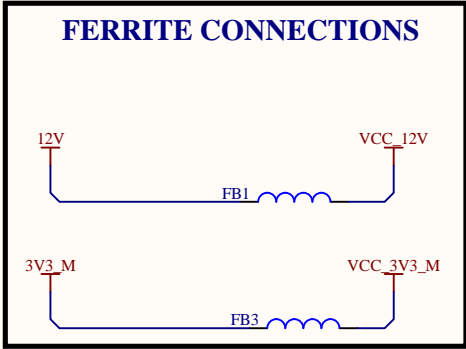
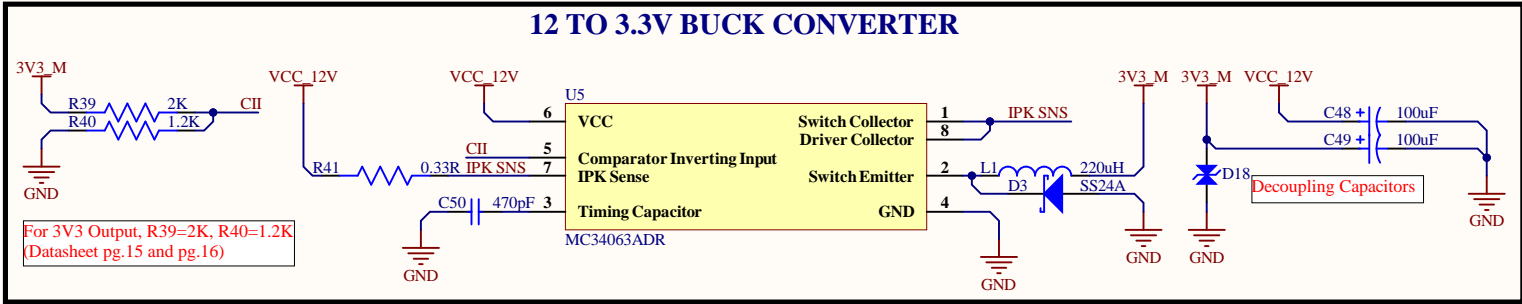
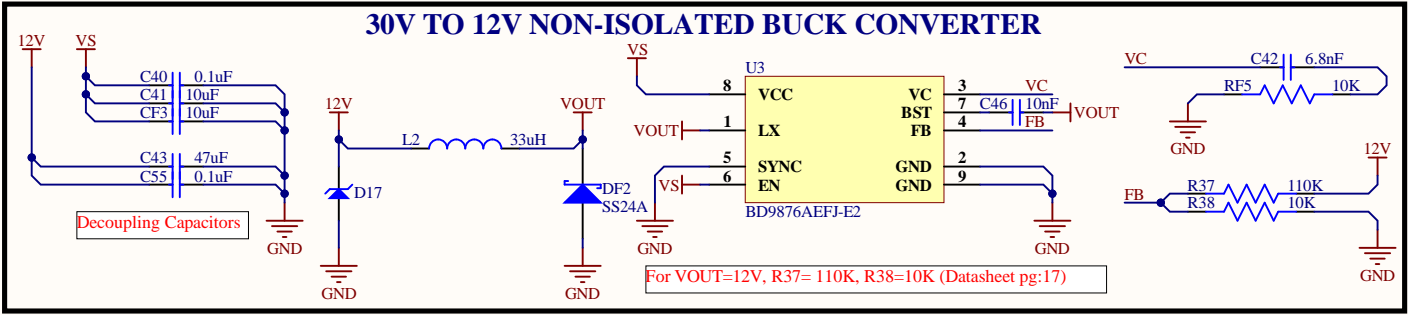
3.8-5V CHARGE PUMP

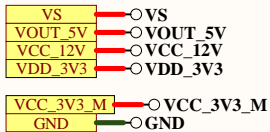


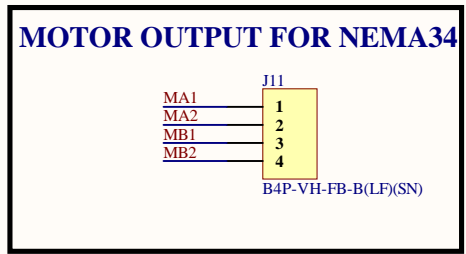
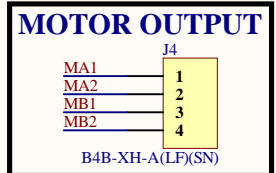
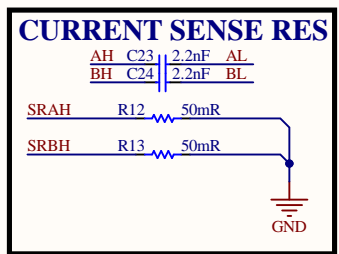
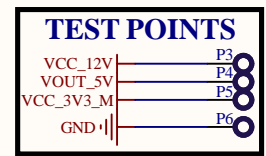
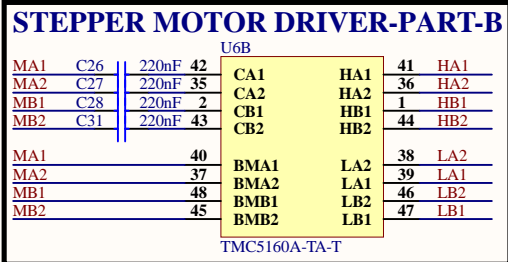
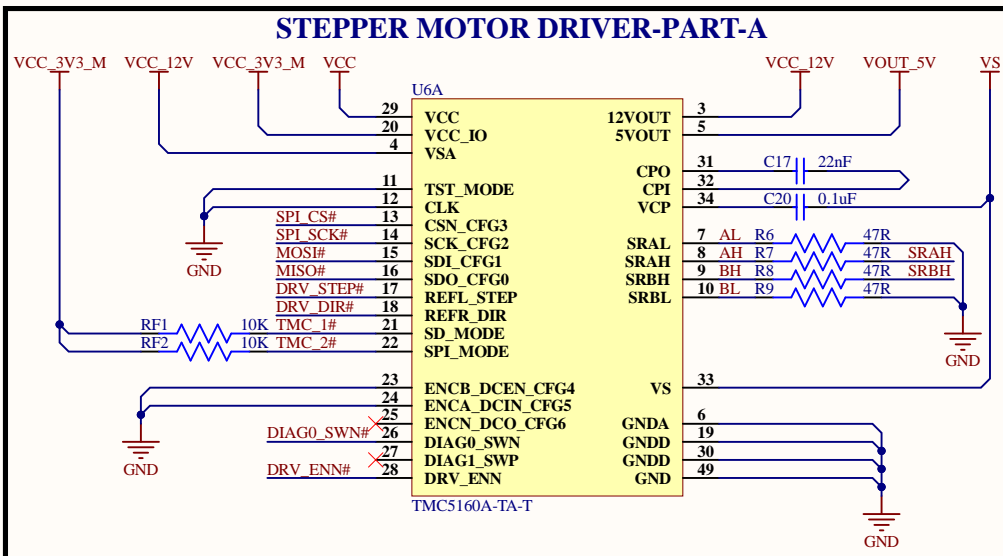
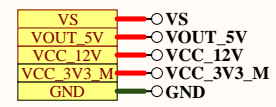
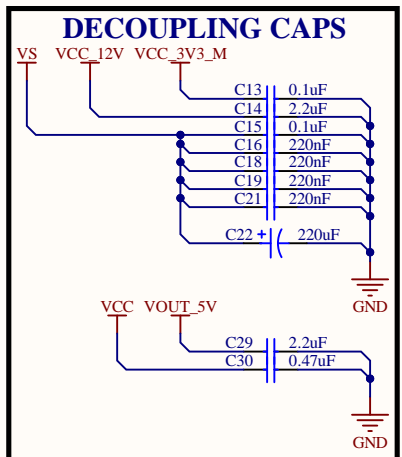
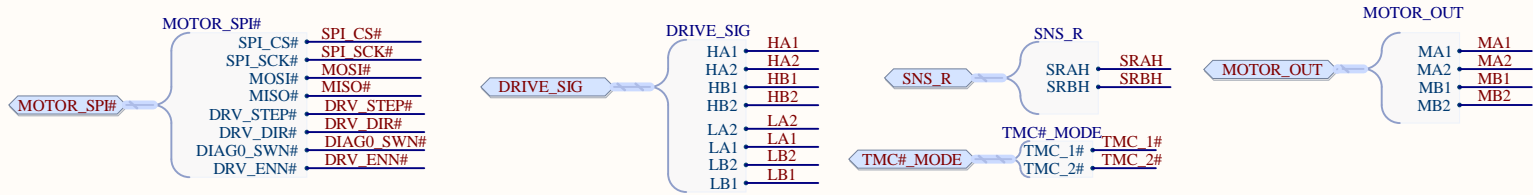
FERRITE CONNECTIONS

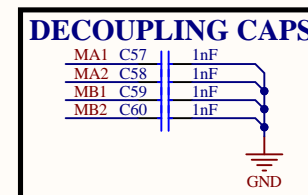
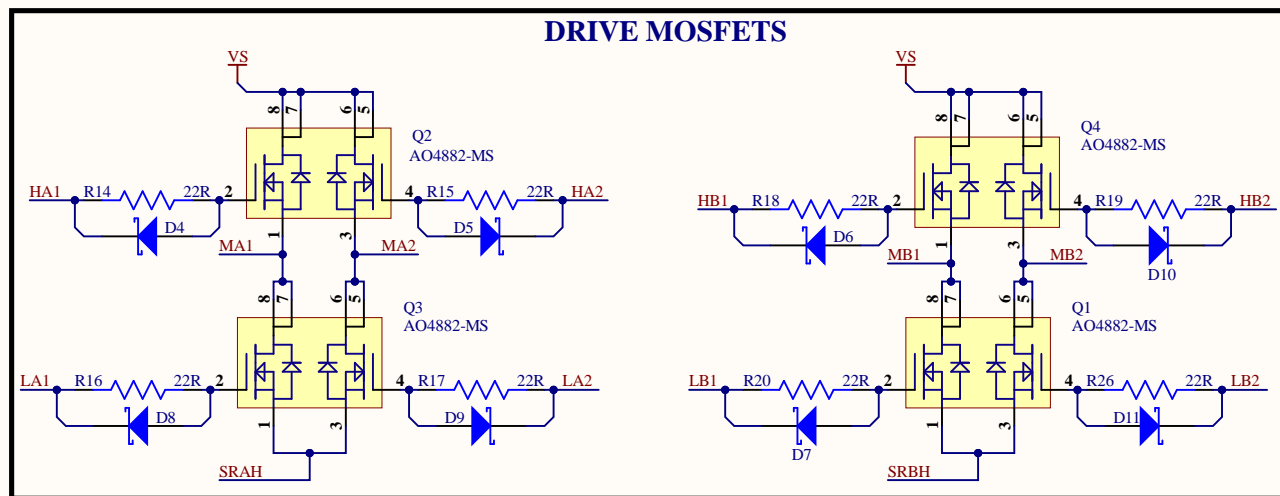
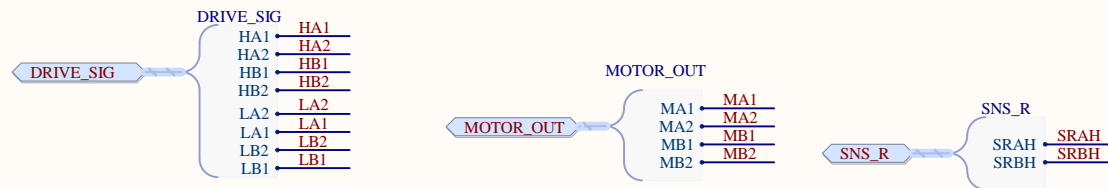


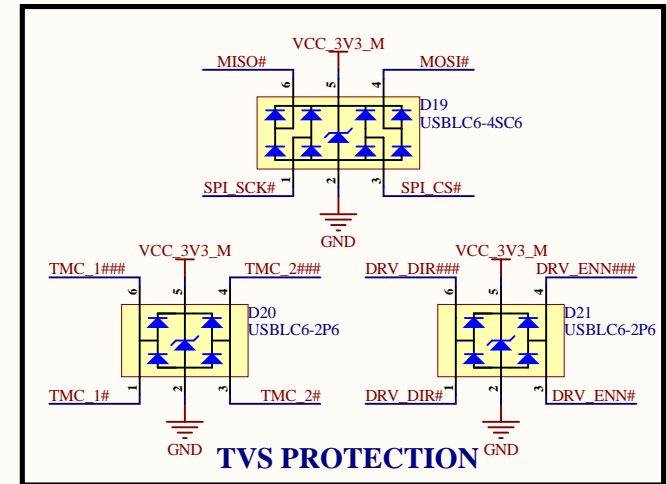
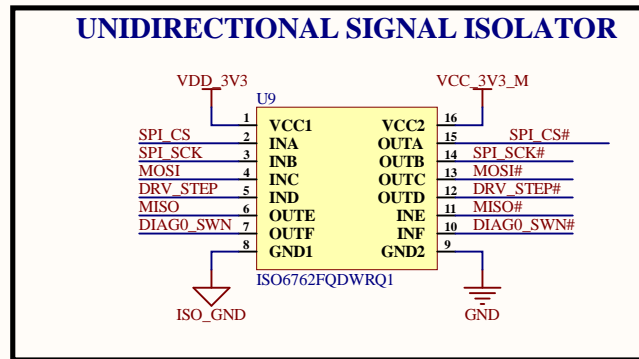
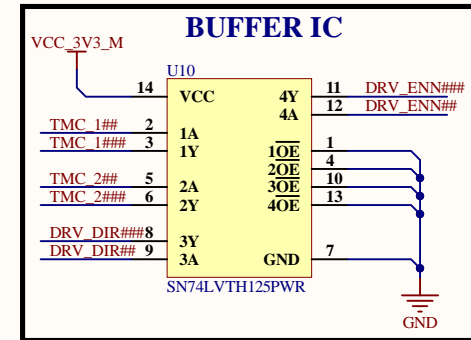
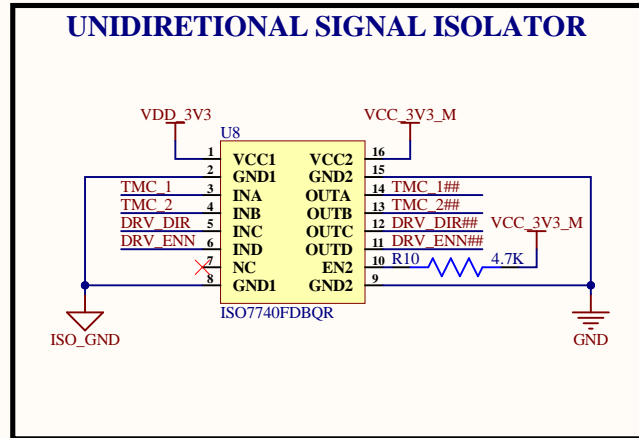
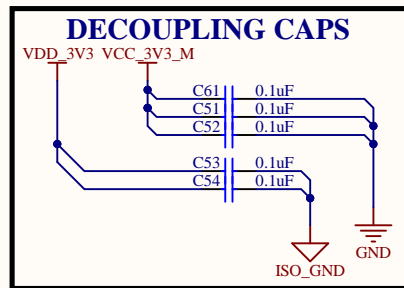
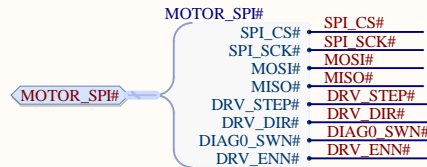
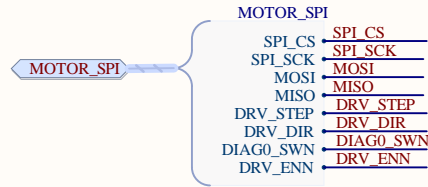
VCC_12V ○ VCC_12V
 VCC_5V ○ 5V
 VDD_3V3 ○ VDD_3V3
 GND ○ GND











Title		
Size	Number	Revision
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Date:	6/08/2024	Sheet of
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