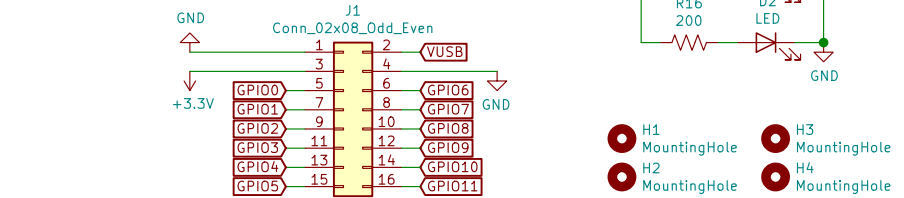
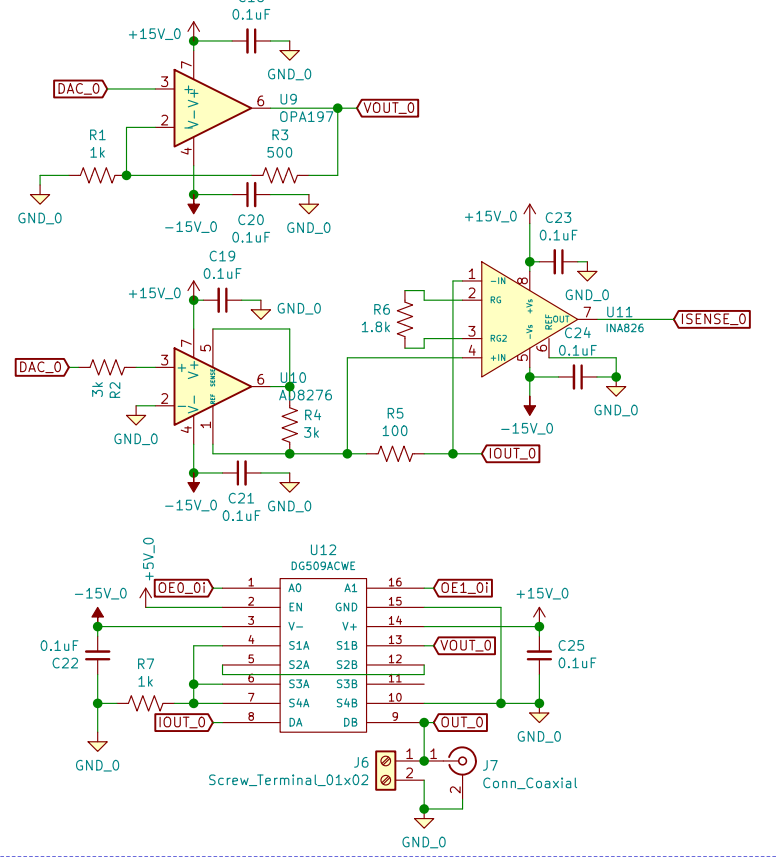
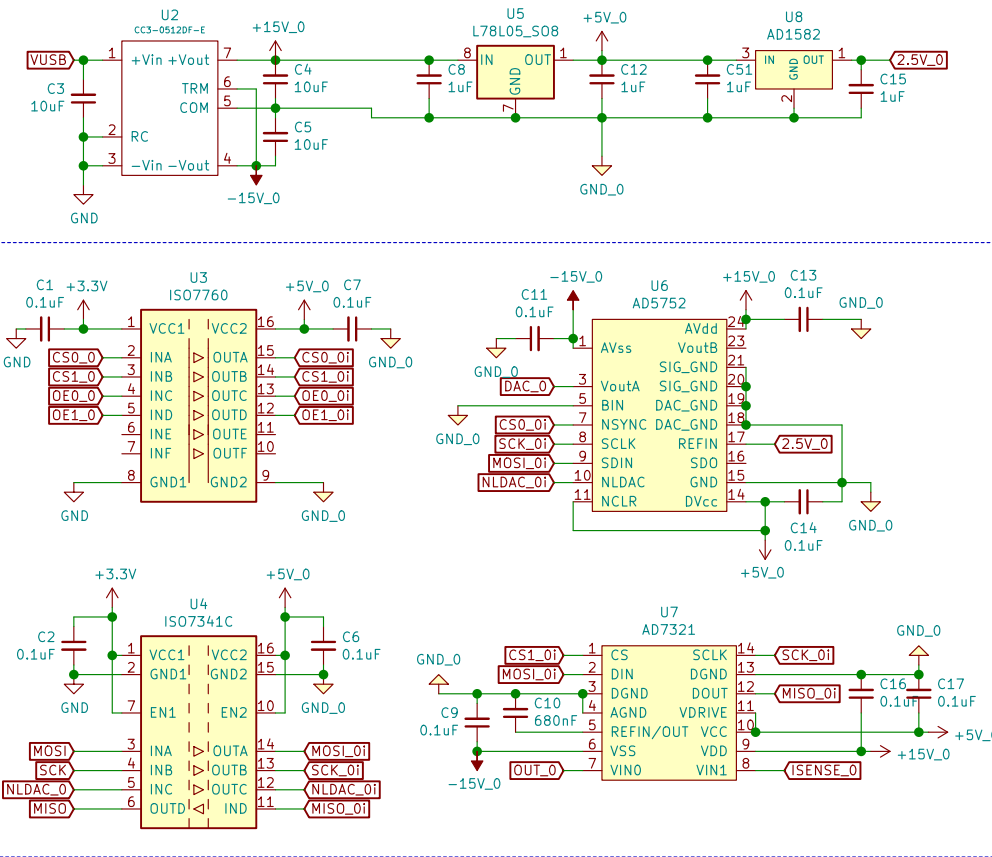
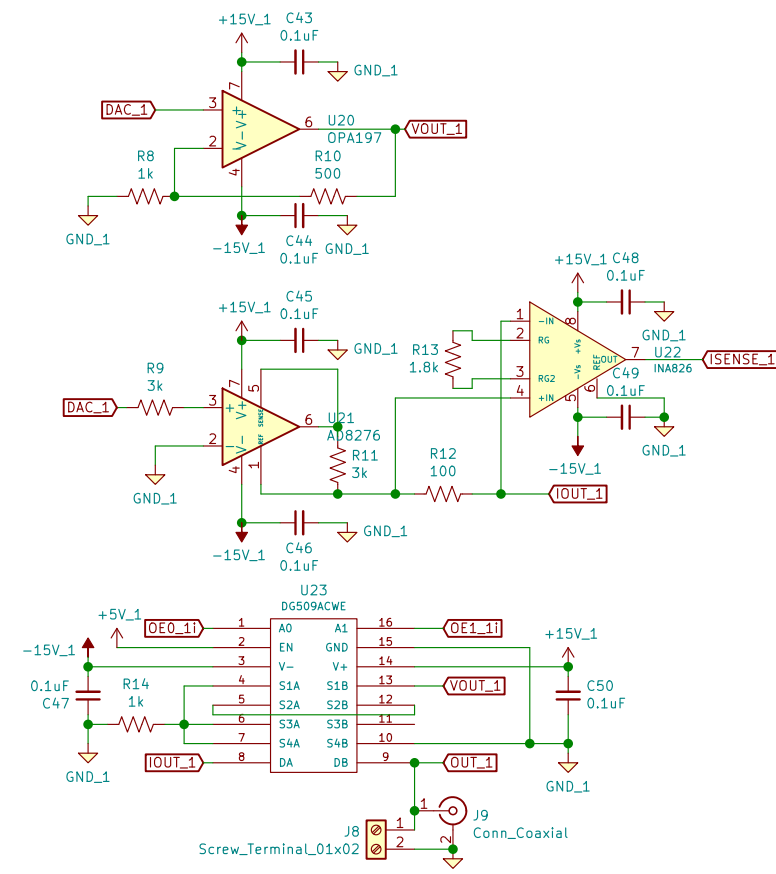
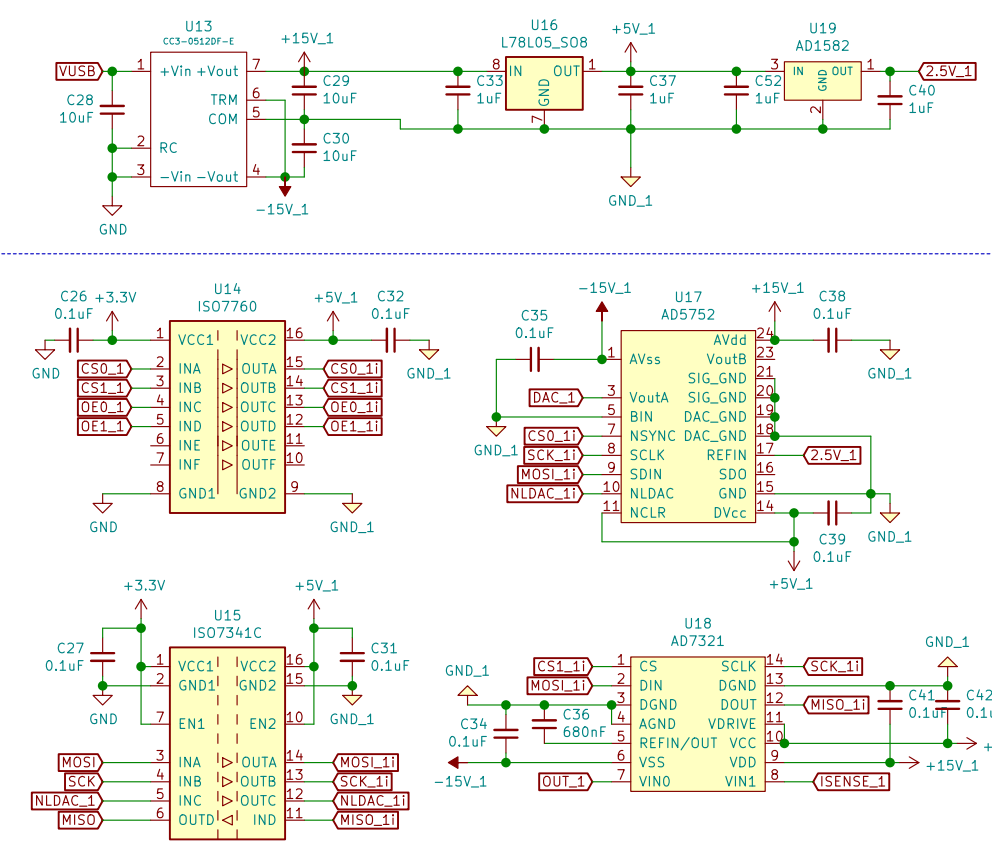


Stim channel 0



Stim channel 1



OE0	OE1	Output
0	0	VOLTAGE
1	0	CURRENT
0	1	High-Z
1	1	GND

Max current output (0ohm load) is $(+/-10V)/3k = +/- 3.33mA$.
Current resolution is $20V/2^{16}/3k = 0.1uA$.
Max voltage output (infinite load) is $40/43*14.8V = +/-13.76V$

gain is $R_{sense} * (1 + 49.4k/R_g) = 100 * (1 + 49.4k/1.8k) = 2.87 mV/uA$
Voltage output range is thus $+/- 3333 * 0.00287 = +/- 9.57V$
output needs to be within $+/- 10V$
current sensing resolution is $10000 mV / 2^{12} / (2.87mV/uA) = 0.85uA$