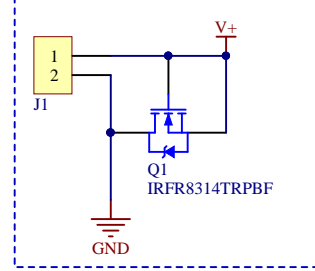
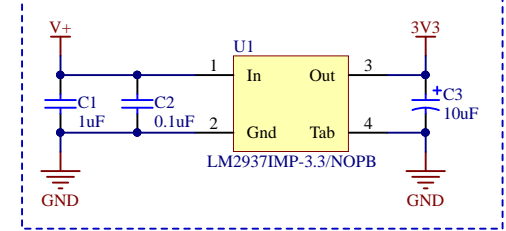


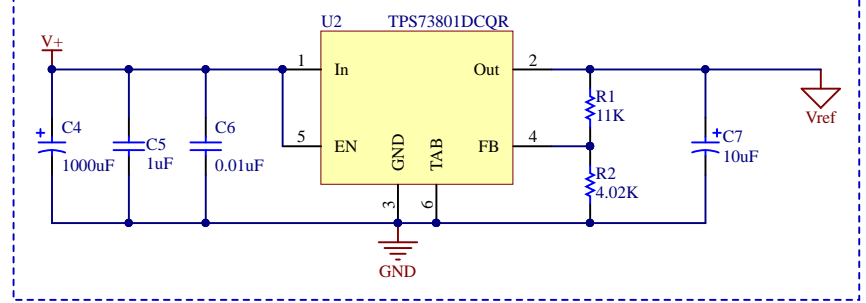
Power input and reverse voltage protection
7-18V

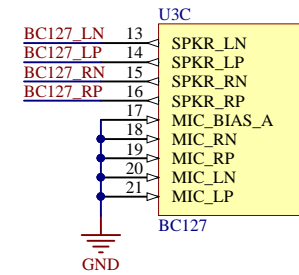
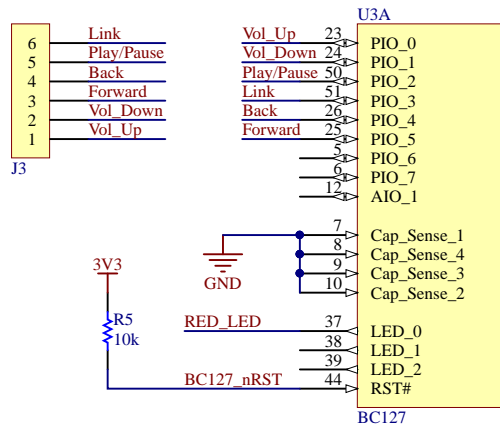
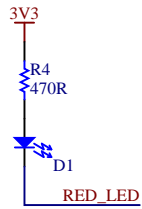
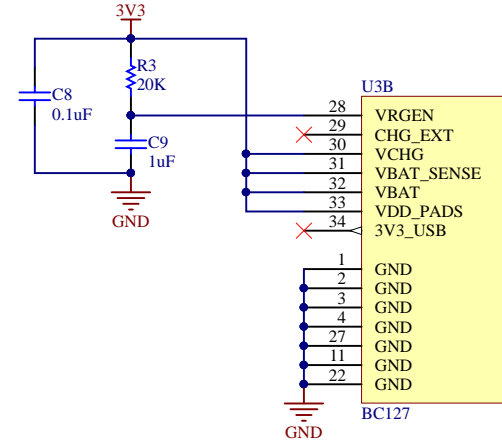
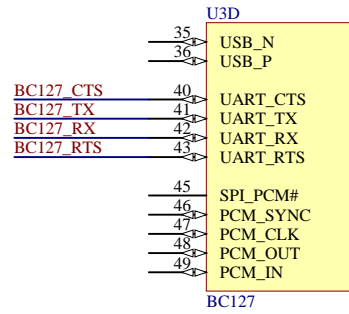
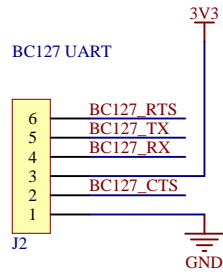


3V3 regulator

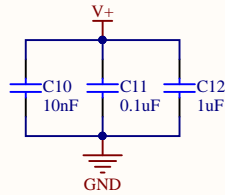
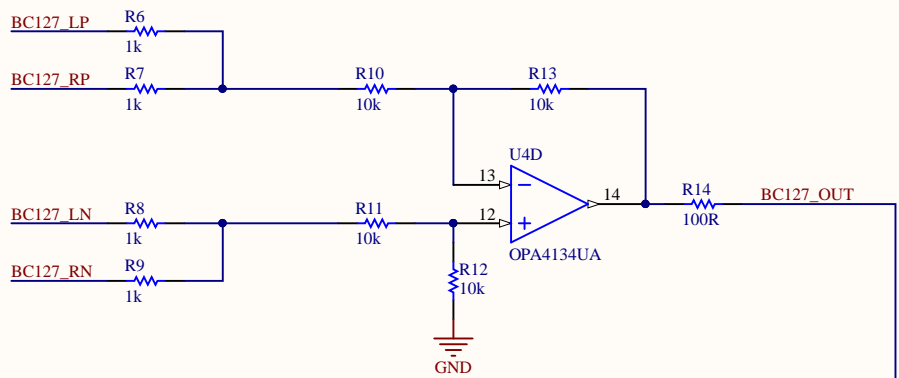


Adjustable op amp reference voltage regulator (4.5V nominal)

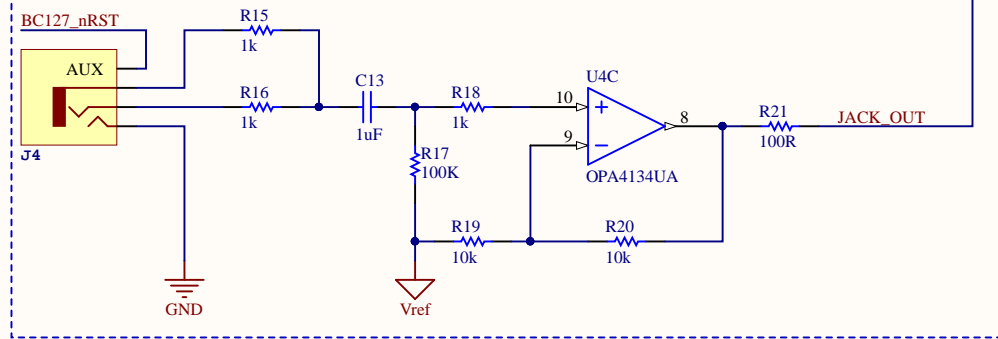




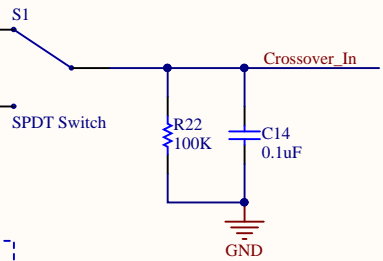
Bluetooth input section and stereo summing



3.5mm AUX input buffer



MAYBE: ESD diodes?
MAYBE: switch to OPA164x
MAYBE: AC couple feedback resistors



A

B

C

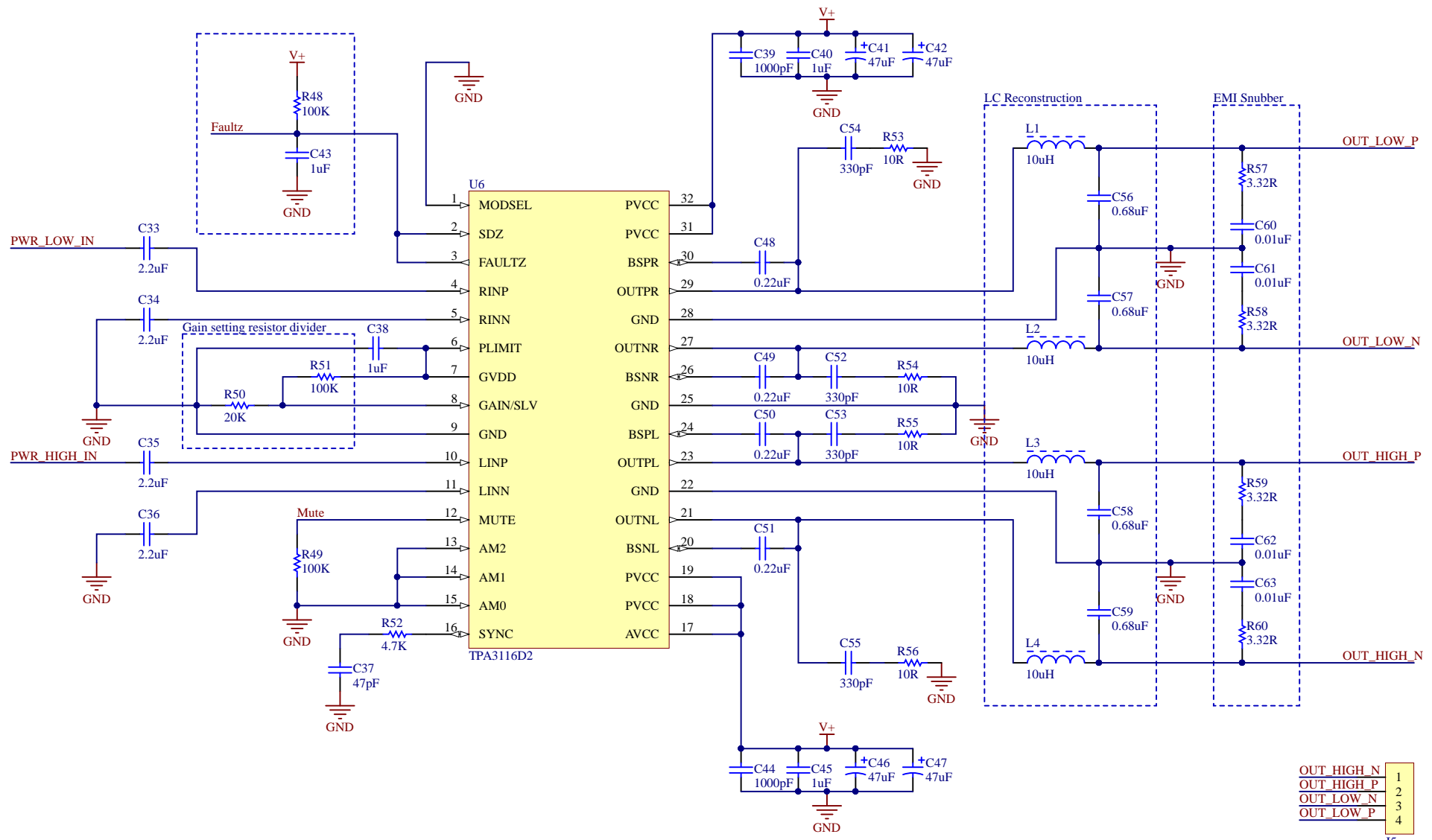
D

1

2

3

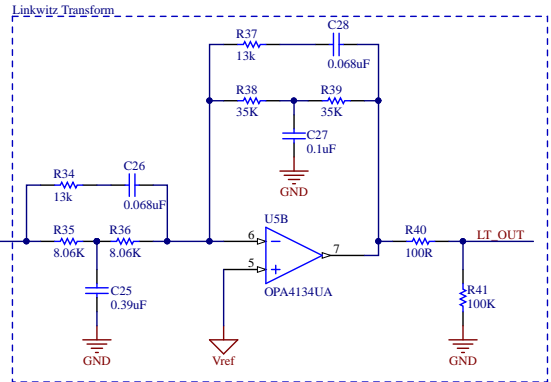
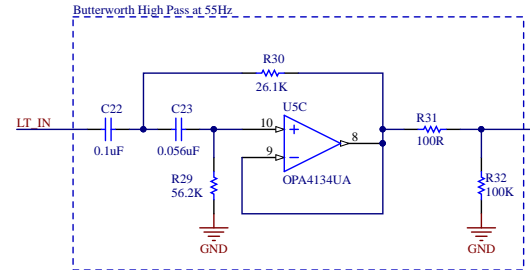
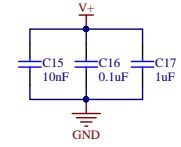
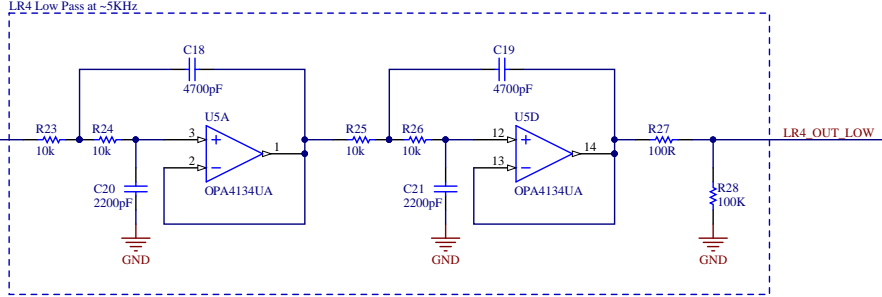
4



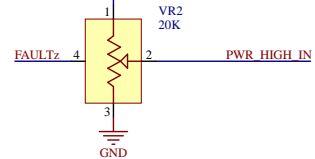
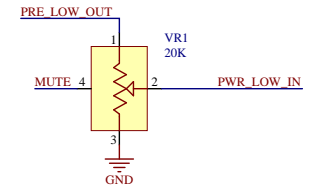
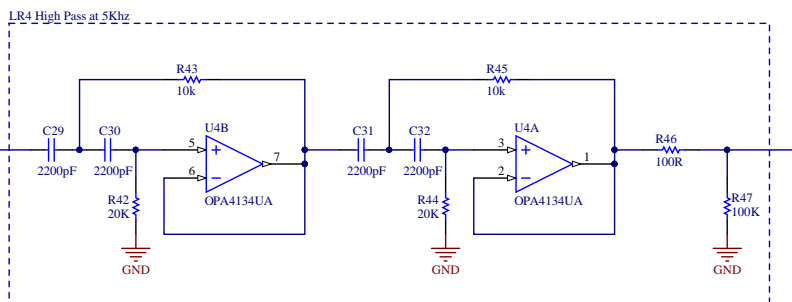
OUT HIGH_N	1
OUT HIGH_P	2
OUT LOW_N	3
OUT LOW_P	4

J5

Note for LR4:
 $F_p = 1 / (2.83 * \pi * R * C)$
 R = 10k
 C = 2200pF



Reduces extreme low frequencies to prevent speaker damage and op amp saturation in Linkwitz Transform



Note:
 Potentiometers are connected to 4 pin JST-PH connectors
 4th pin is unused by potentiometers, used as auxiliary IO pins for power amp