

Sheet: /Input/

File: input.kicad\_sch

**Title: ample/Input**

Size: A4 Date: 2023-07-14

KiCad E.D.A. kicad 7.0.4

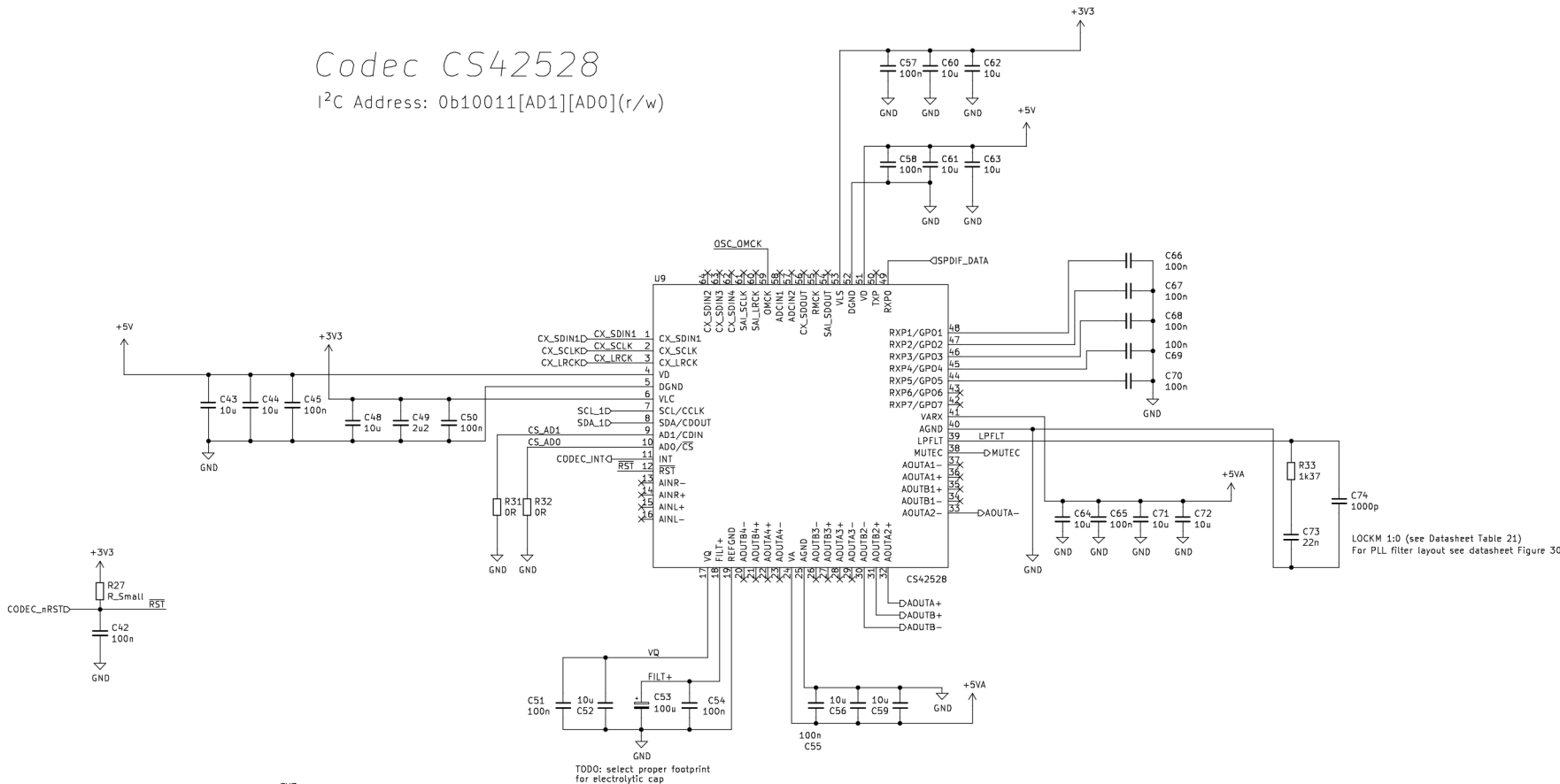
**Rev: 00.01**

Id: 3/8

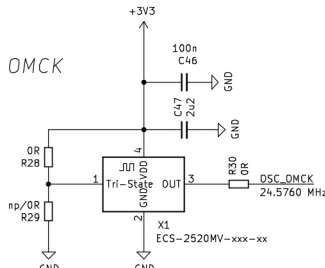
for review: Go over all pins in datasheet

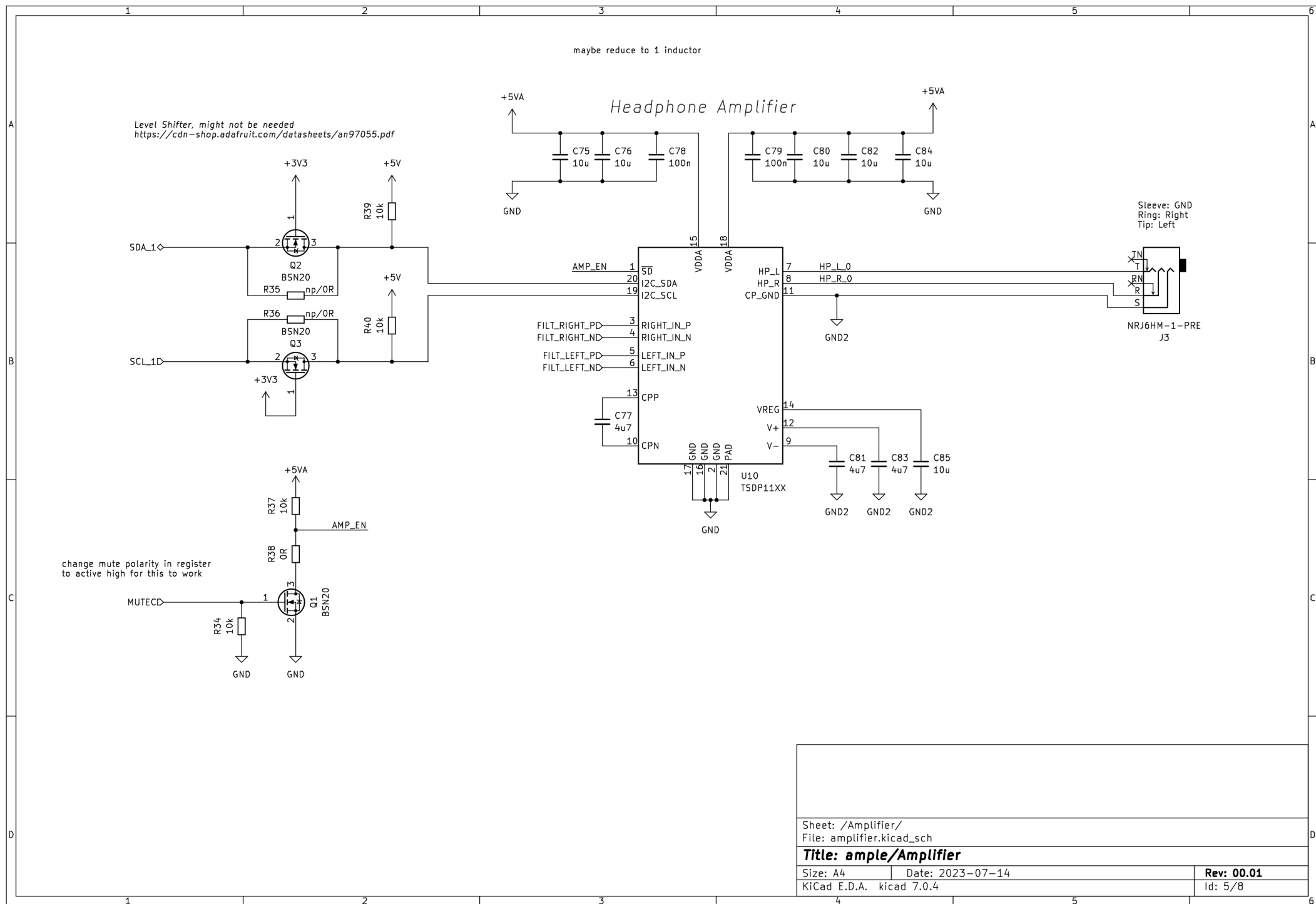
Codec CS42528

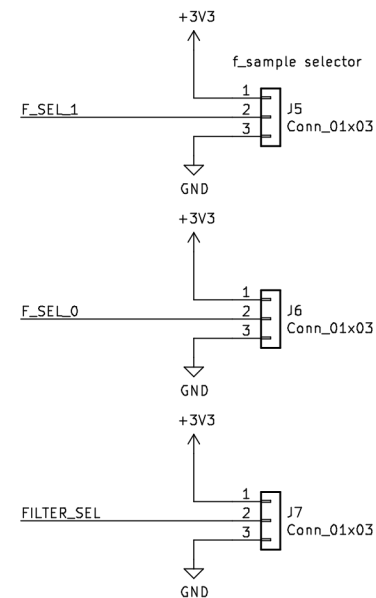
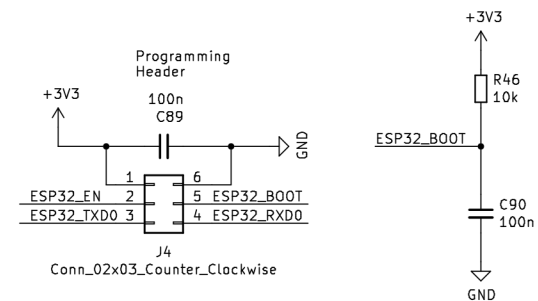
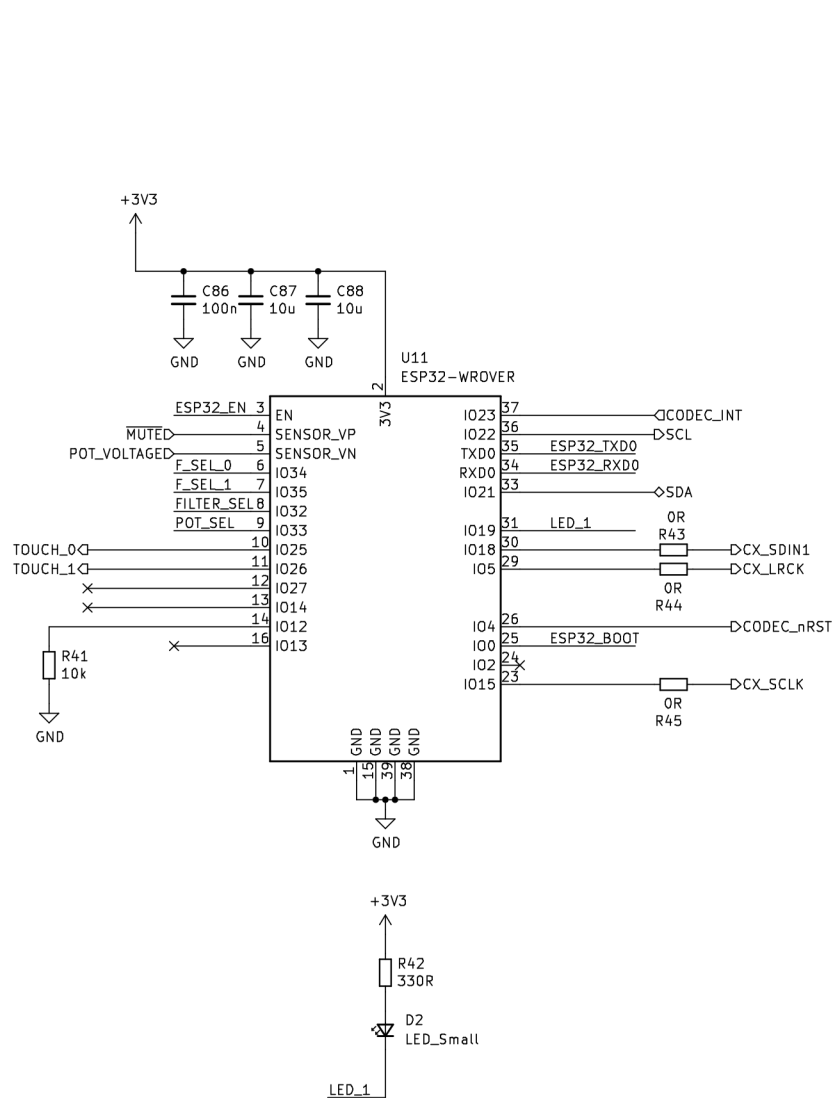
I<sup>2</sup>C Address: 0b10011[AD1][AD0](r/w)



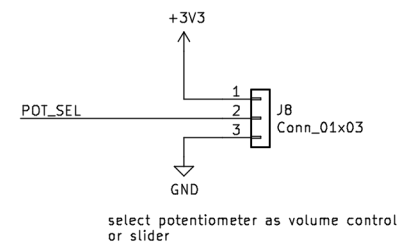
optional OMCK







See CS42528 Datasheet sec 4.3.2  
maybe turn into external switch



select potentiometer as volume control  
or slider

Sheet: /Microcontroller/  
File: microcontroller.kicad\_sch

**Title: ample/Microcontroller**

Size: A4 Date: 2023-07-14

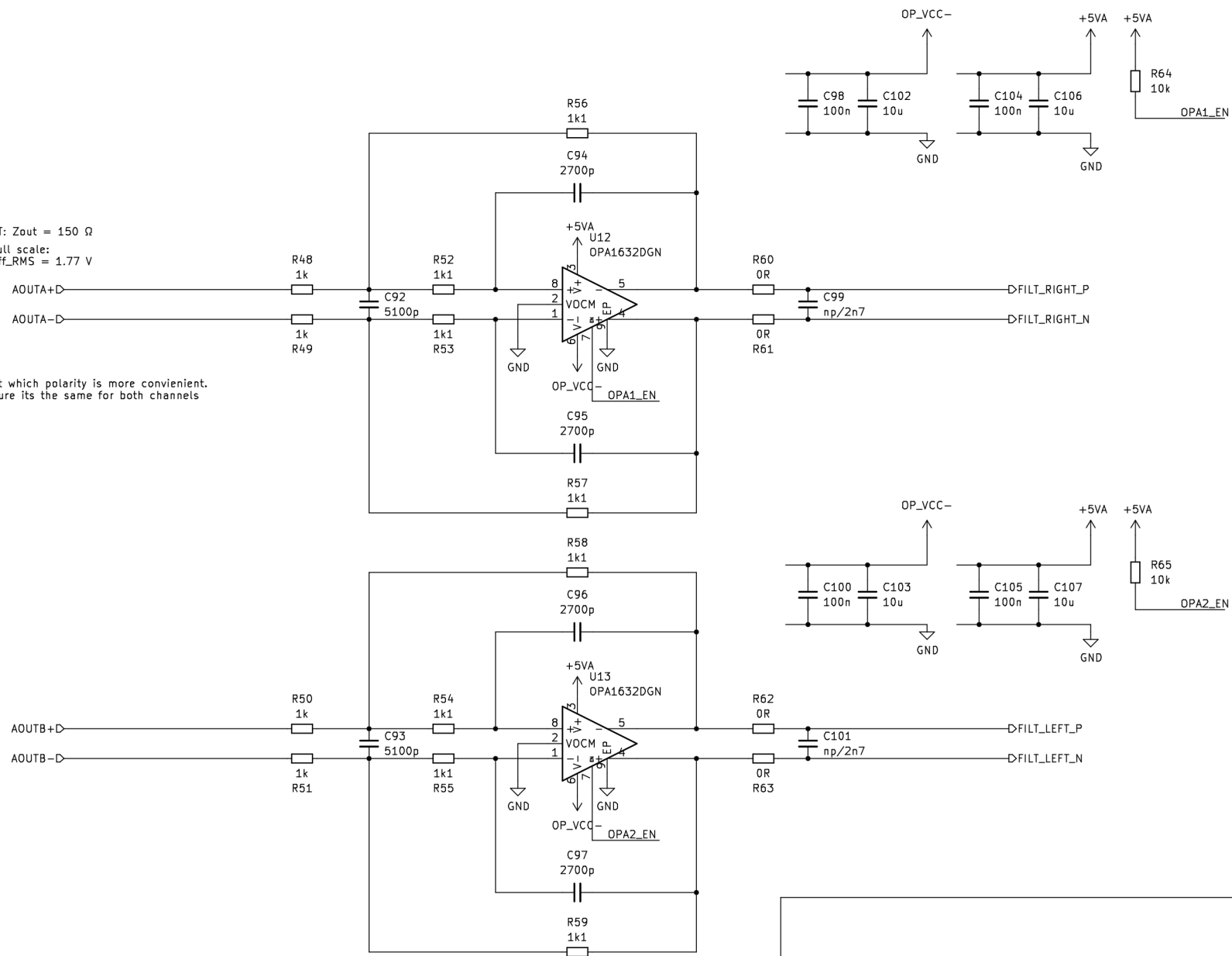
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**Rev: 00.01**

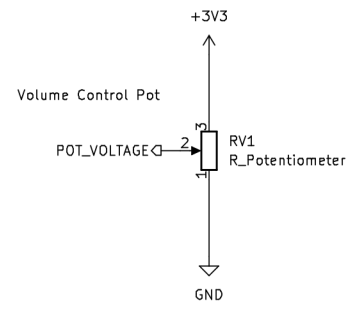
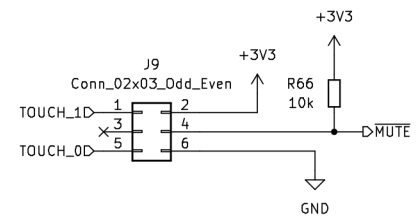
Id: 6/8

AOUT:  $Z_{out} = 150\ \Omega$   
 at full scale:  
 $V_{diff\_RMS} = 1.77\ V$

check layout which polarity is more convenient.  
 just make sure its the same for both channels



Sheet: /DAC_Filter/	
File: dac_filter.kicad_sch	
<b>Title: ample/DAC Filter</b>	
Size: A4	Date: 2023-07-14
KiCad E.D.A. kicad 7.0.4	Rev: 00.01
	Id: 7/8



Sheet: /Control/ File: Control.kicad_sch			
Title: ample/Control			
Size: A4	Date: 2023-07-14	Rev: 00.01	
KiCad E.D.A. kicad 7.0.4		Id: 8/8	