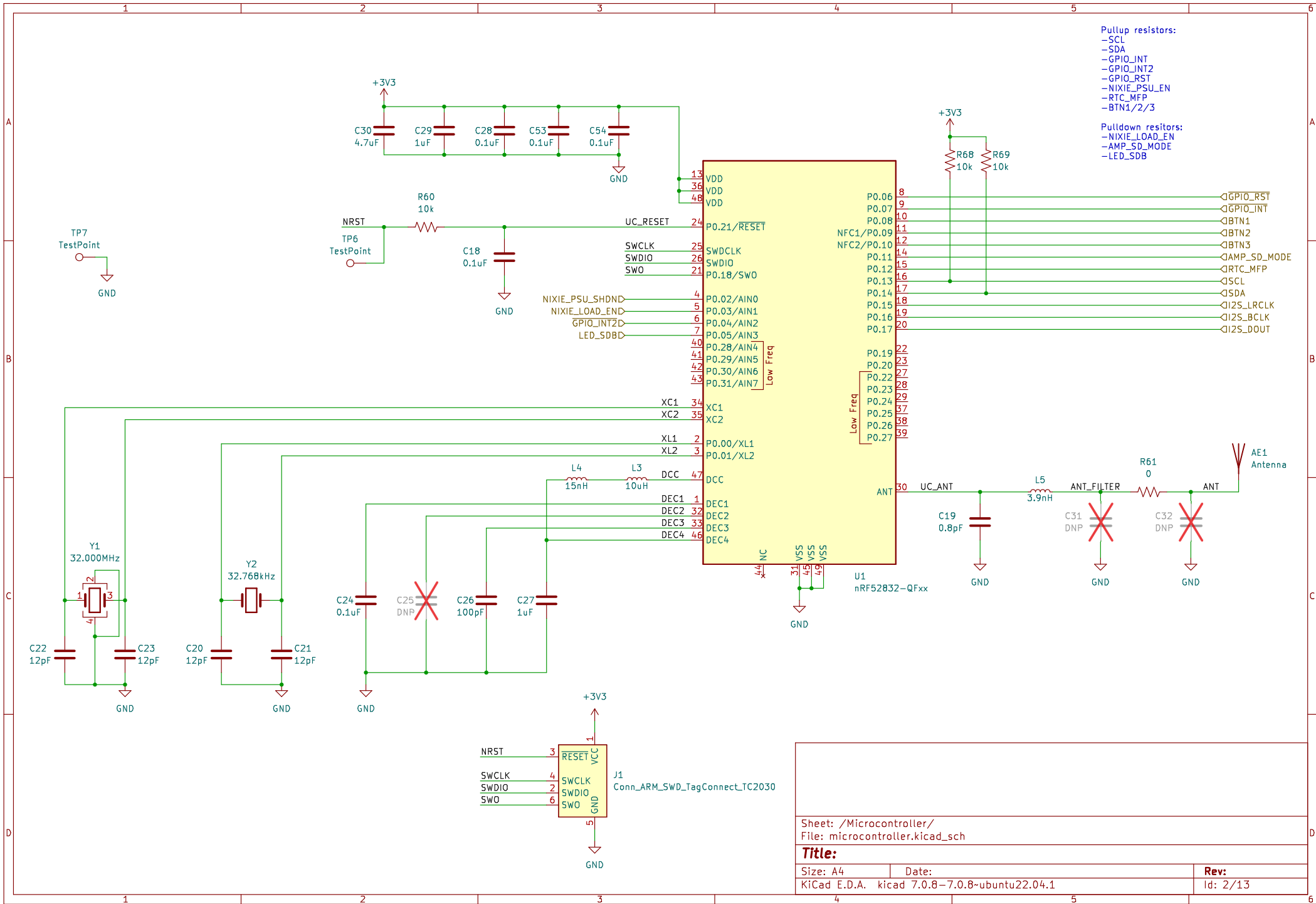
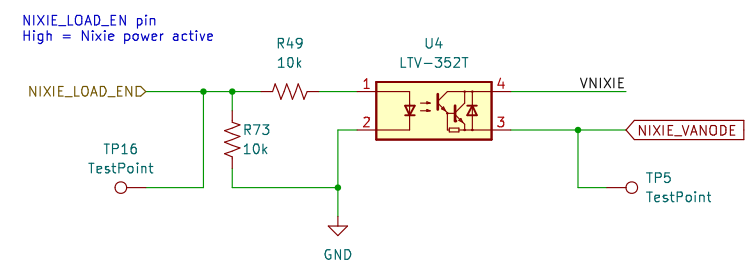
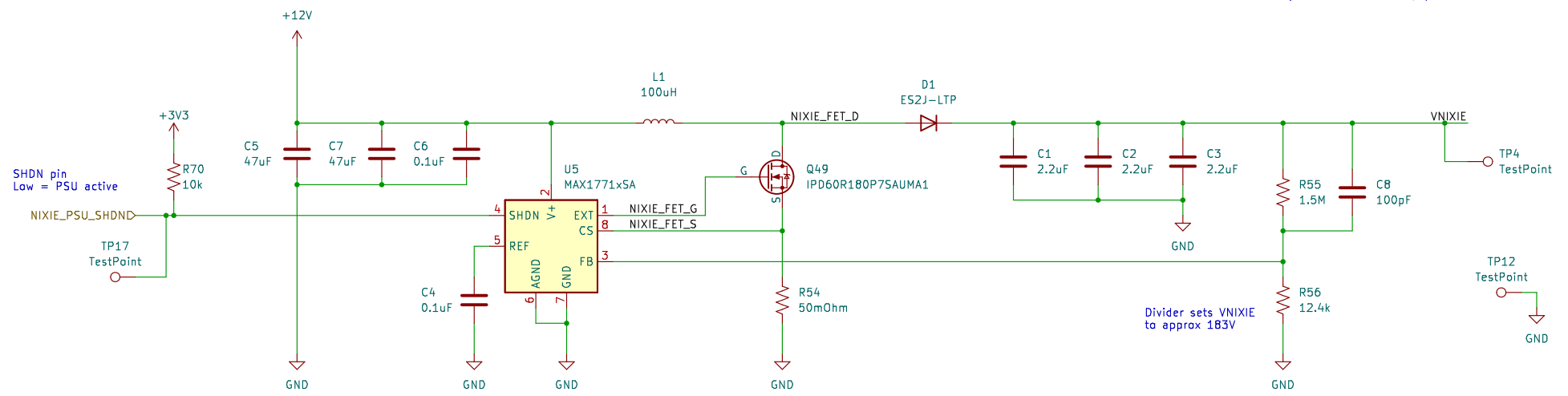


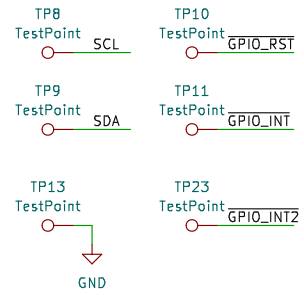
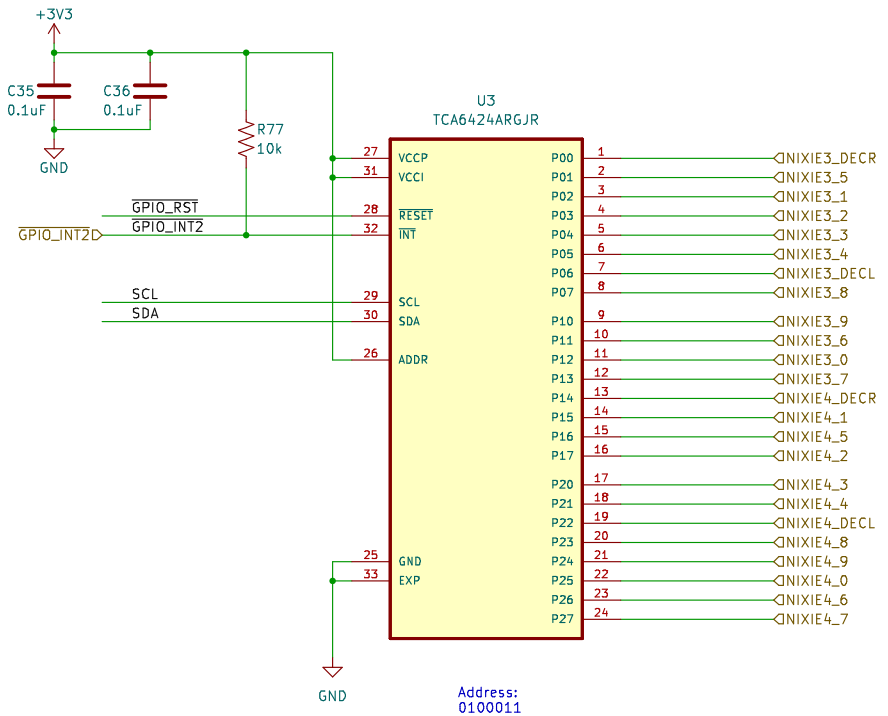
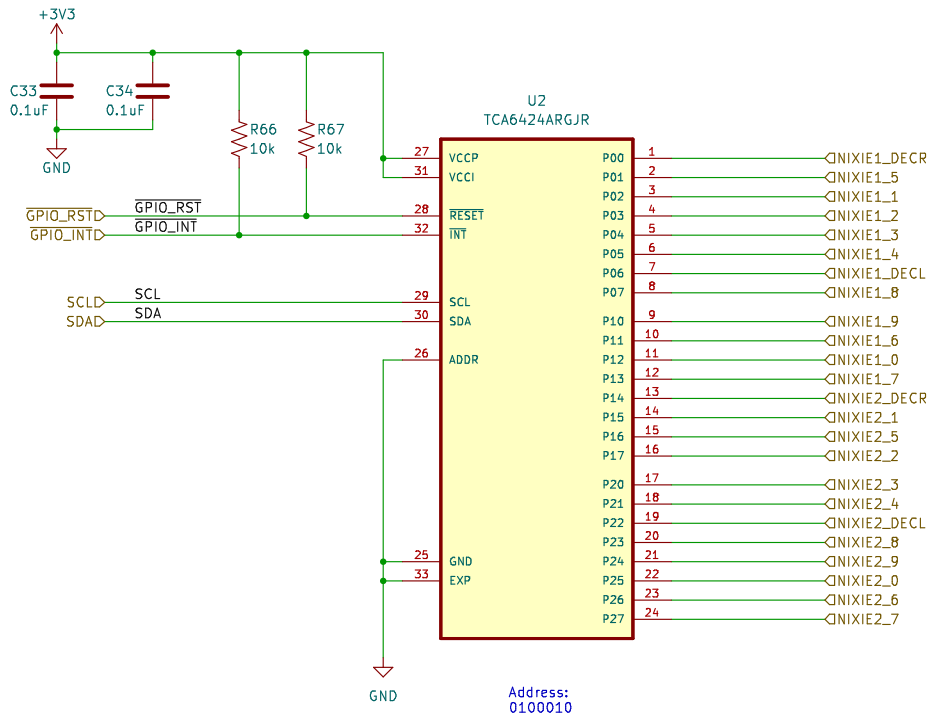
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Size: A4	Date:	Rev:	
KiCad E.D.A.	kicad 7.0.8-7.0.8-ubuntu22.04.1	Id: 1/13	



Note: VNIXIE will be about 1.2V (VIN minus diode drops) when PSU is not active.

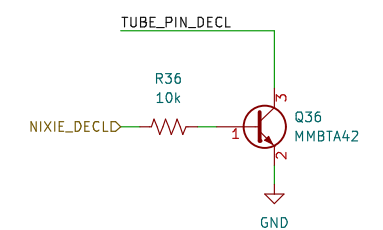
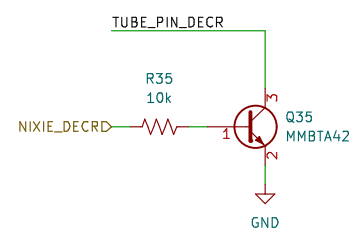
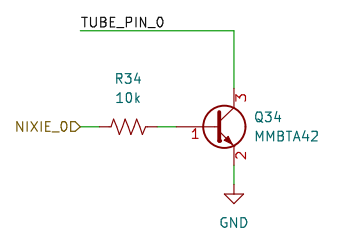
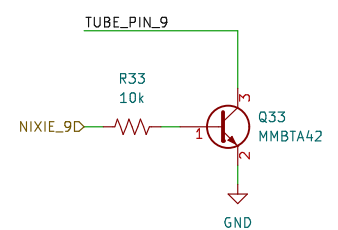
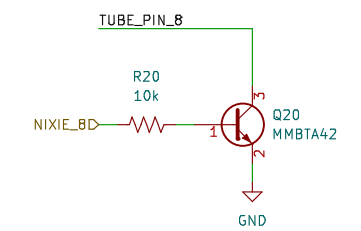
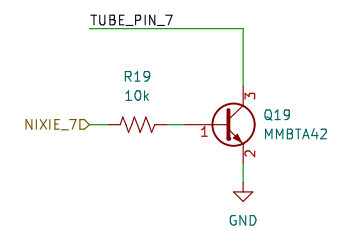
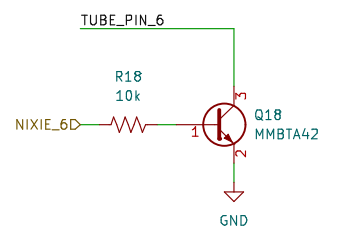
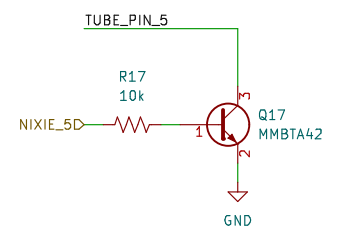
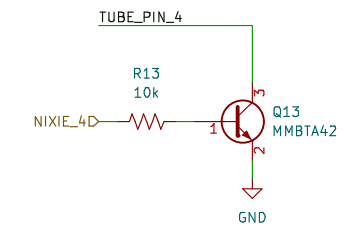
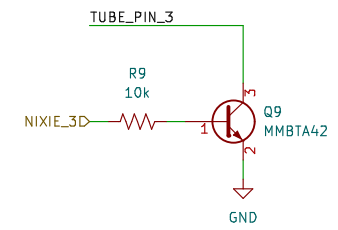
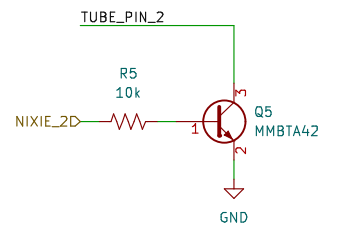
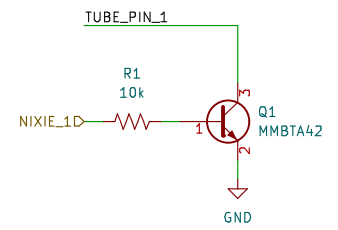
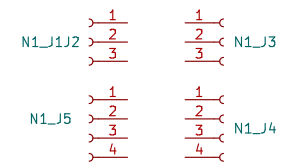


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KiCad E.D.A. kicad 7.0.8-7.0.8-ubuntu22.04.1		Id: 3/13





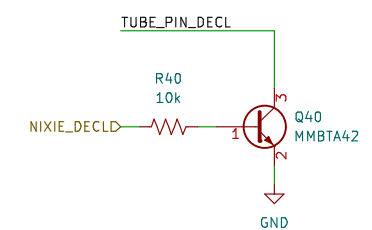
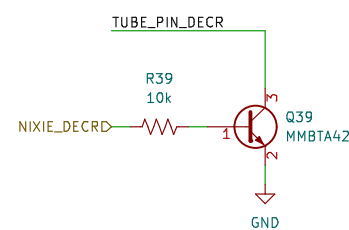
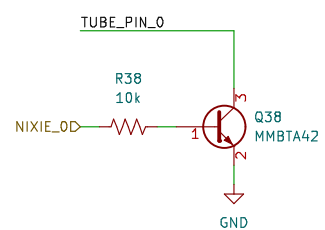
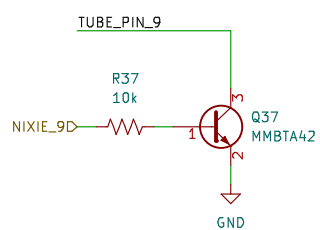
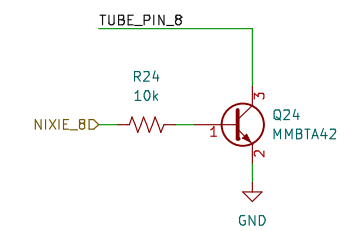
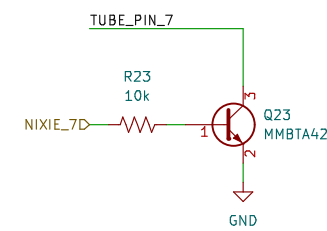
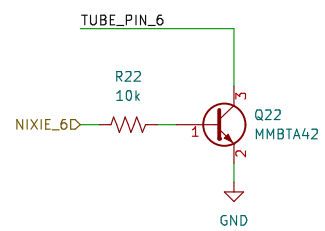
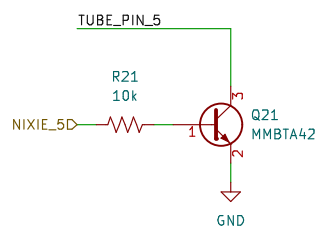
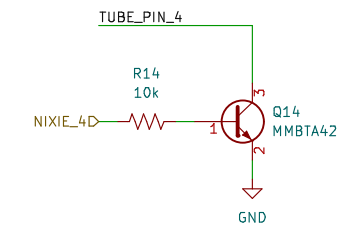
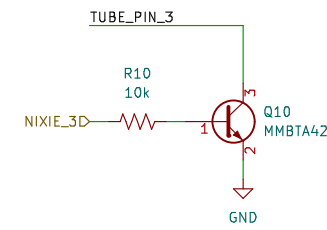
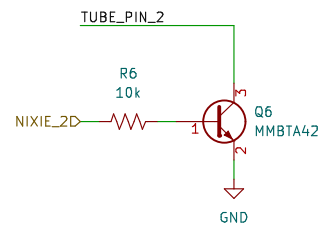
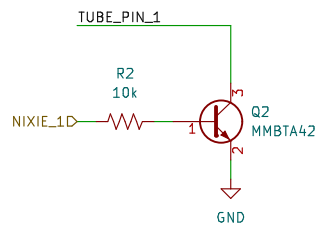
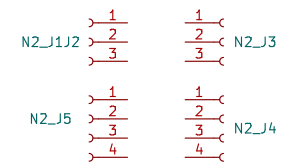
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NUMERAL_6	6
NUMERAL_7	8
NUMERAL_8	9
NUMERAL_9	11
NUMERAL_0	12
R_DEC_PT	13
L_DEC_PT	14



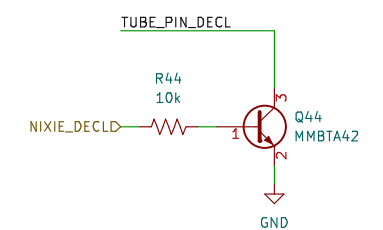
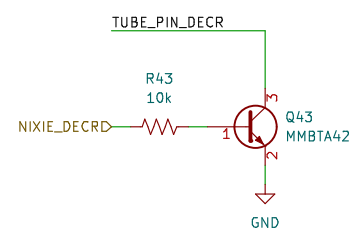
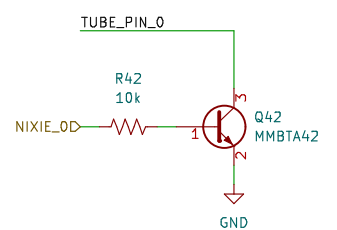
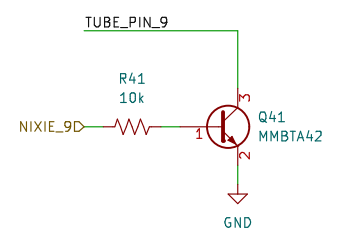
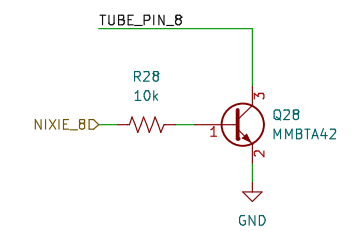
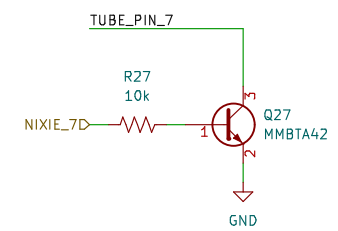
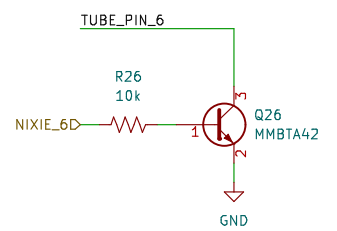
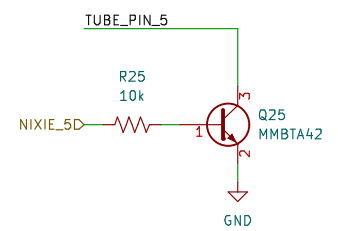
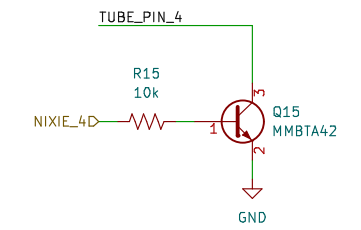
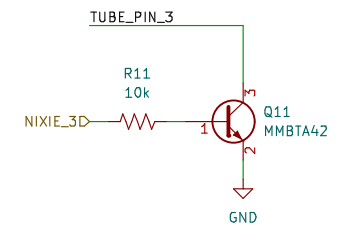
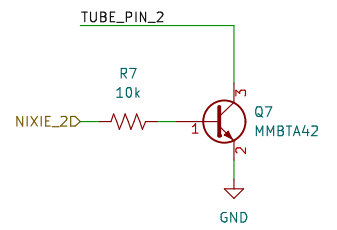
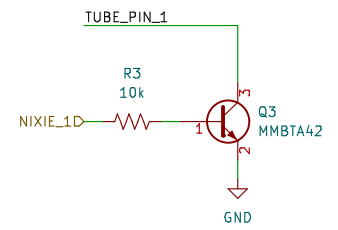
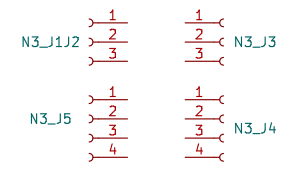
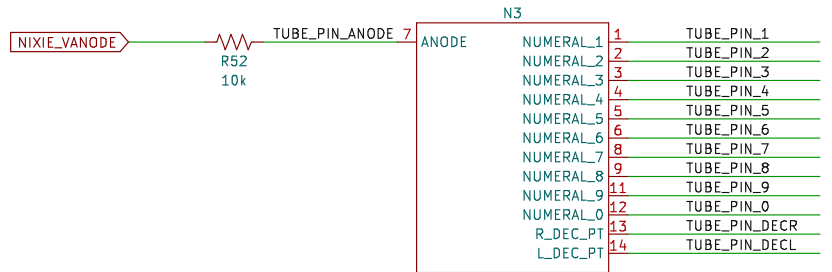
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Rev:	
Id: 5/13	



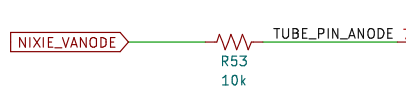
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NUMERAL_9	11
NUMERAL_0	12
R_DEC_PT	13
L_DEC_PT	14



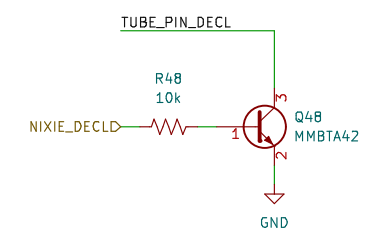
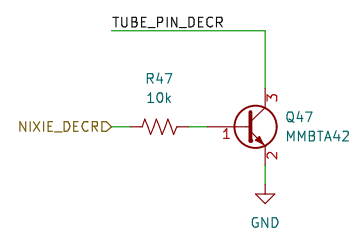
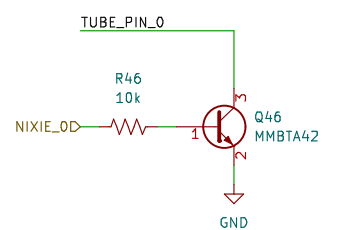
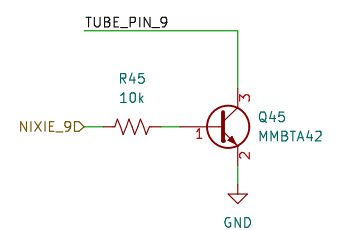
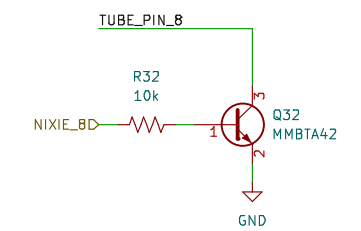
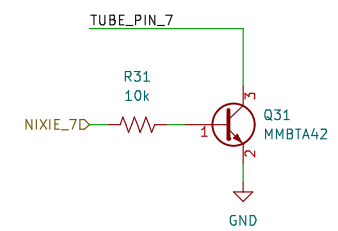
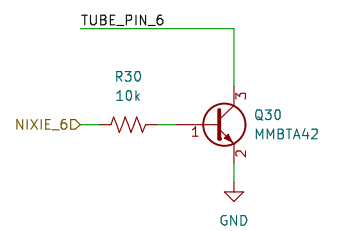
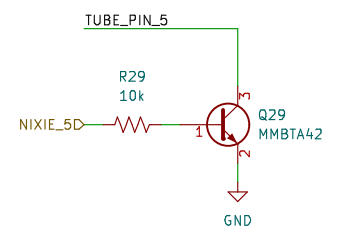
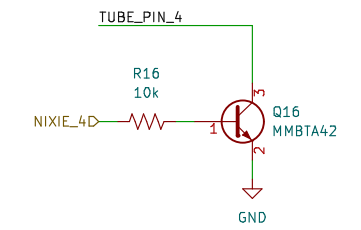
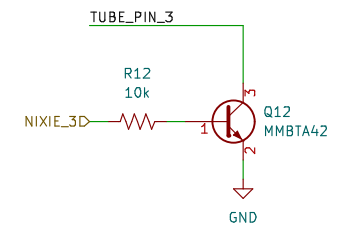
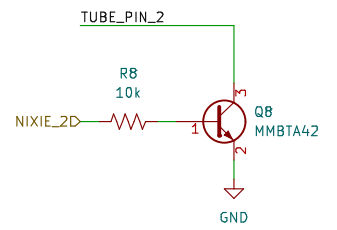
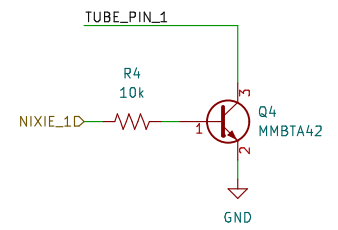
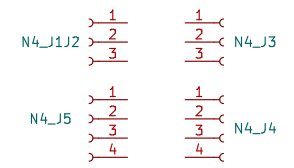
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Rev:	
Id: 6/13	



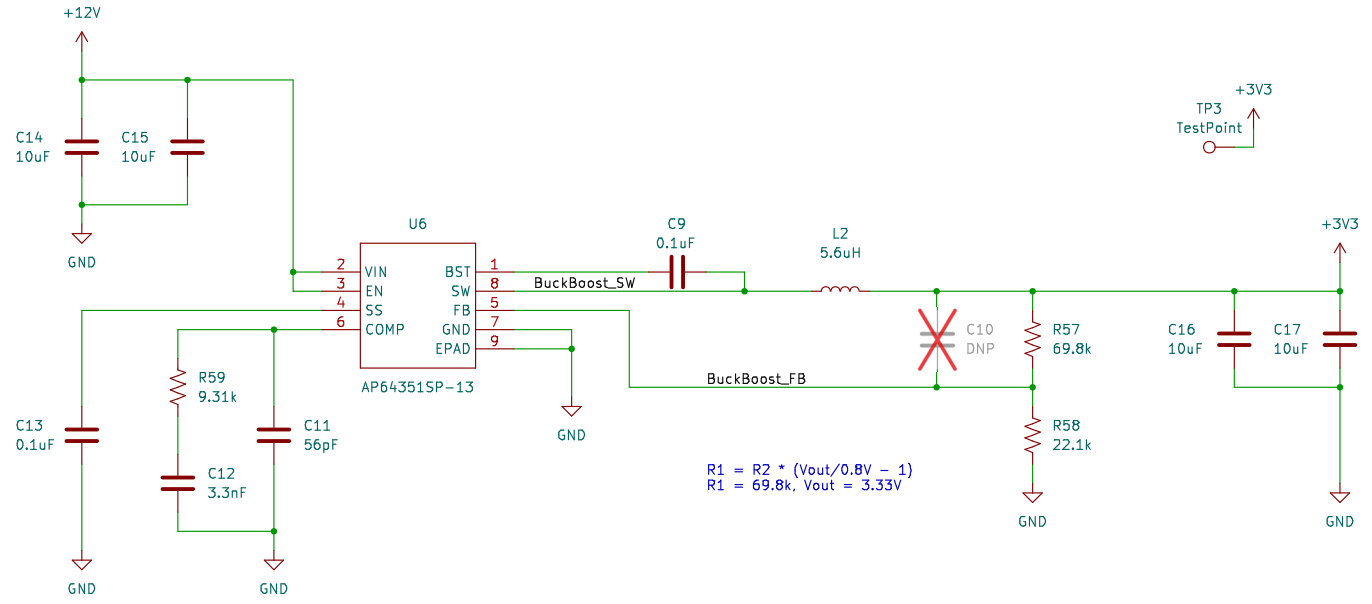
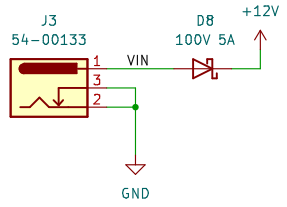
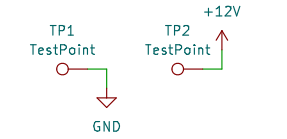
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NUMERAL_3	3
NUMERAL_4	4
NUMERAL_5	5
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NUMERAL_8	9
NUMERAL_9	11
NUMERAL_0	12
R_DEC_PT	13
L_DEC_PT	14



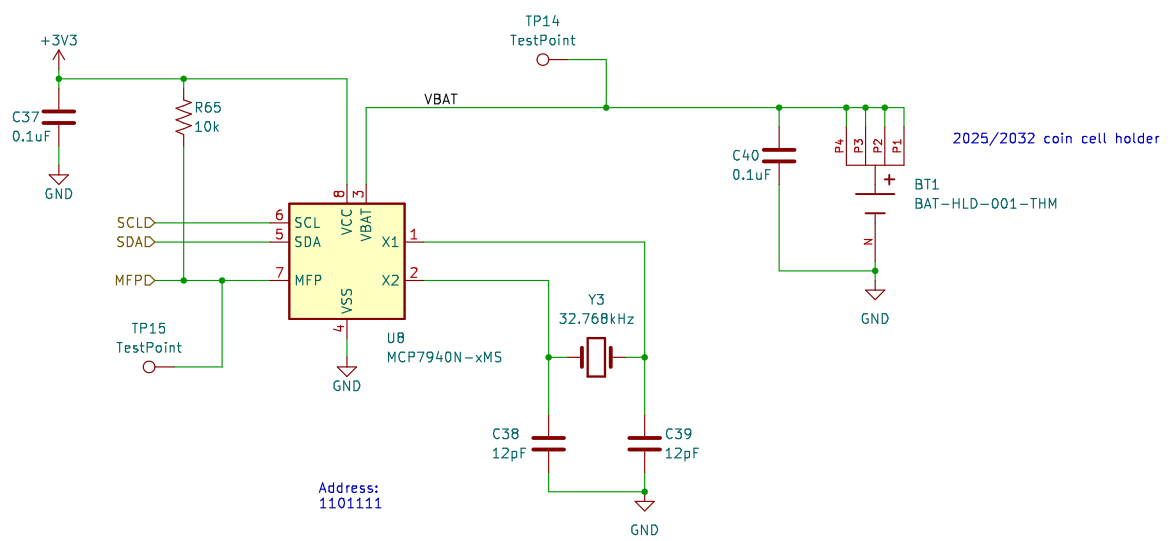
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Rev:	
Id: 8/13	



$$R1 = R2 * (Vout / 0.8V - 1)$$

$$R1 = 69.8k, Vout = 3.33V$$

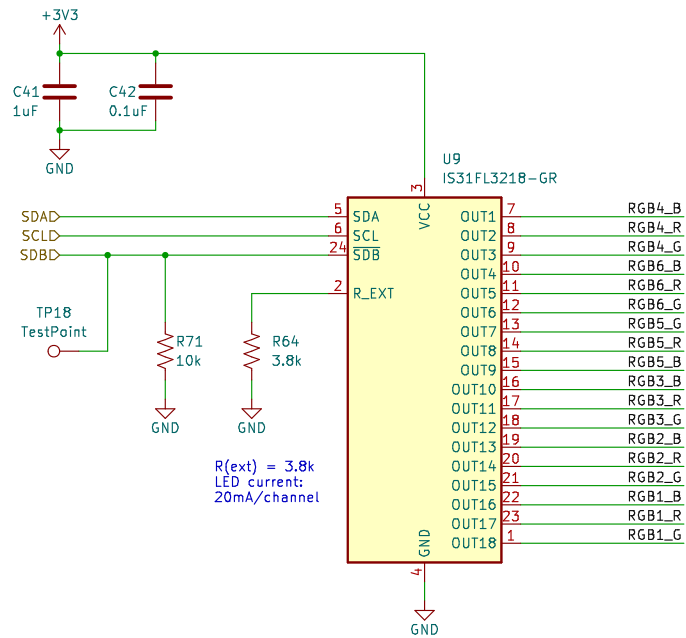
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KiCad E.D.A. kicad 7.0.8-7.0.8-ubuntu22.04.1		Id: 9/13



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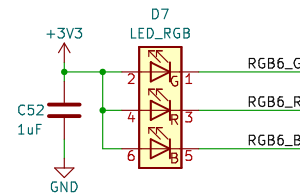
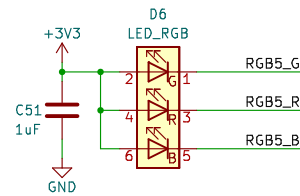
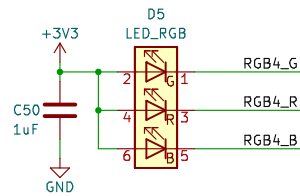
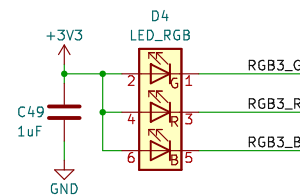
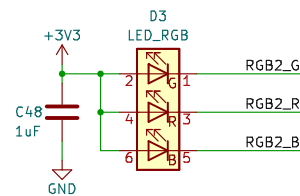
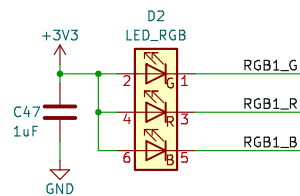
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Size: A4	Date:	Rev:
KiCad E.D.A.	kicad 7.0.8-7.0.8-ubuntu22.04.1	Id: 10/13



R(ext) = 3.8k
LED current:
20mA/channel

Address:
1010100
Write only

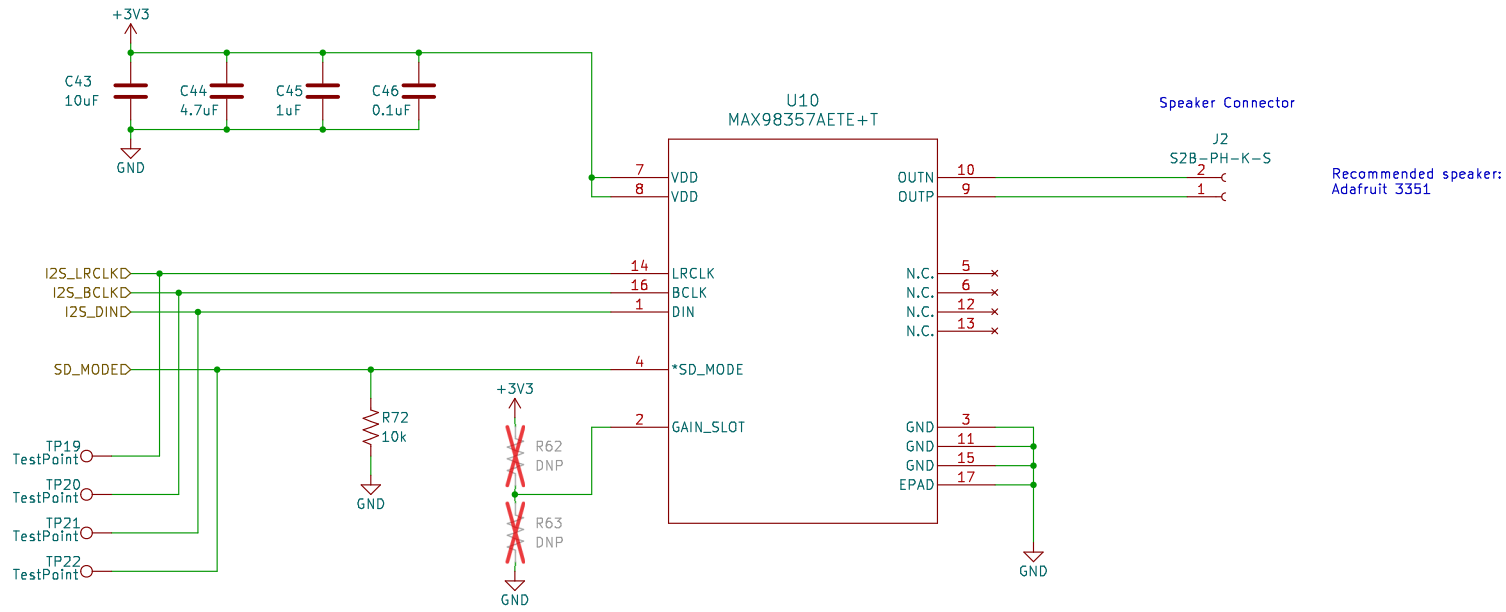


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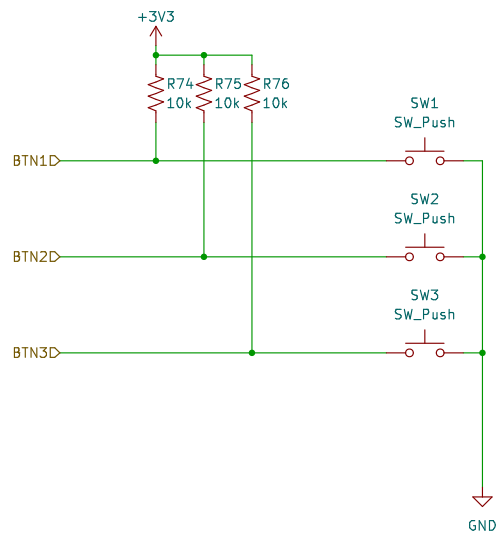
Rev:
Id: 11/13



Recommended speaker:
Adafruit 3351

Gain Slot pin
 100k pulldown = 15dB gain
 Short to GND = 12dB gain
 No connection = 9dB gain
 Short to VDD = 6dB gain
 100k pullup = 3dB gain

Sheet: /Audio_Amplifier/	
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Size: A4	Date:
KiCad E.D.A. kicad 7.0.8-7.0.8-ubuntu22.04.1	Rev: Id: 12/13



H1
M3_Hole

H3
M3_Hole

H2
M3_Hole

H4
M3_Hole

Sheet: /Buttons/
File: buttons.kicad_sch

Title:

Size: A4 Date:
KiCad E.D.A. kicad 7.0.8-7.0.8-ubuntu22.04.1

Rev:
Id: 13/13