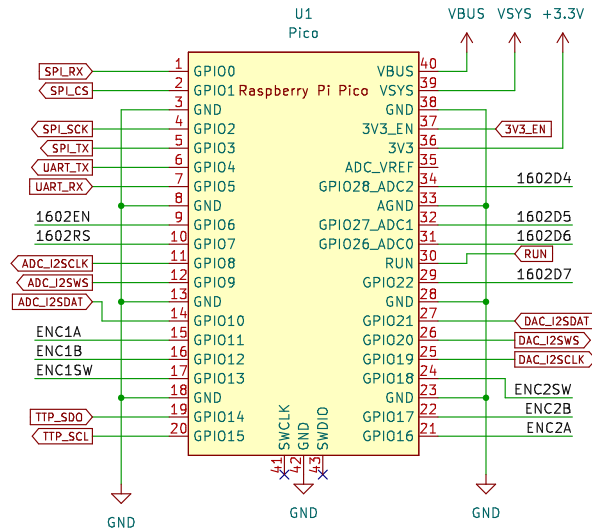
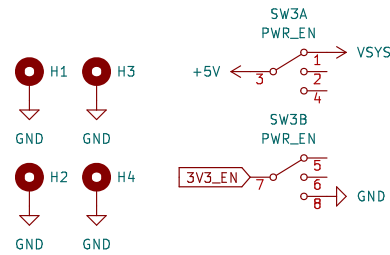


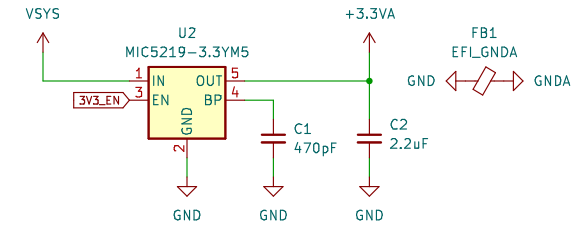
MCU



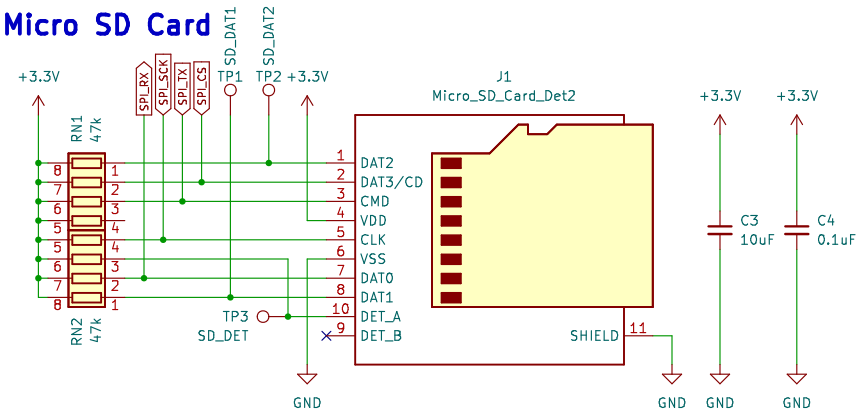
Power Enable



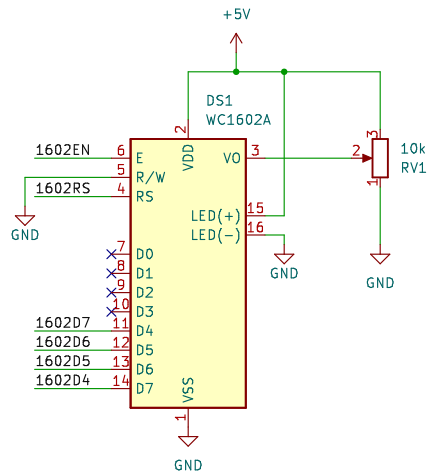
3.3v Analog Power Supply



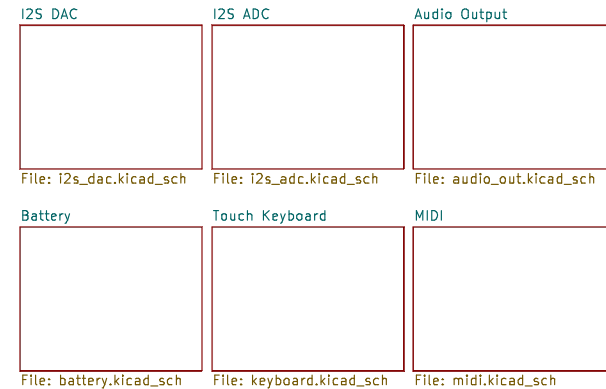
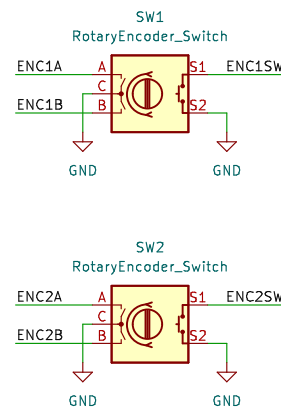
Micro SD Card



1602 Display



Encoders



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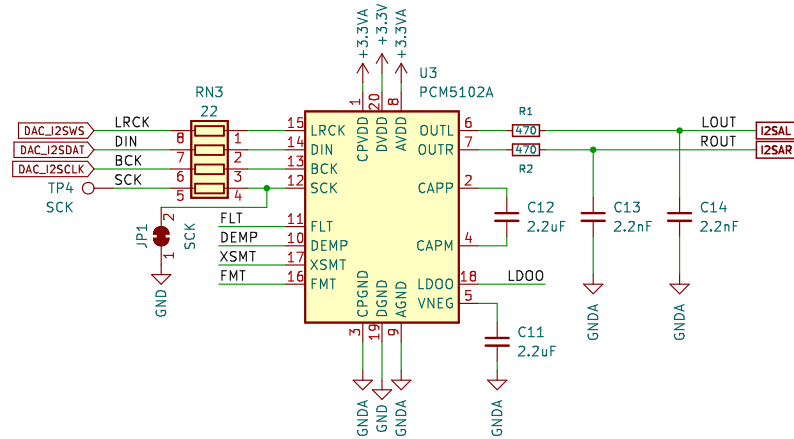
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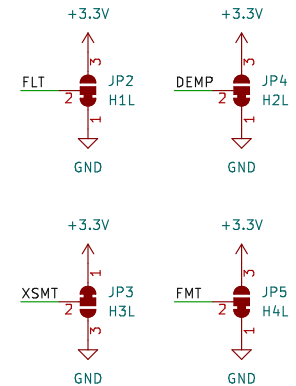
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KiCad E.D.A. kicad 7.0.9+dfsg-1

Rev: 2
Id: 1/7

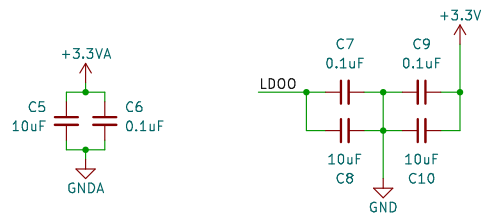
DAC



Configuration



Power Filtering



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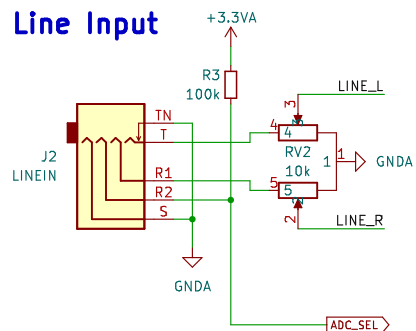
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File: i2s_dac.kicad_sch

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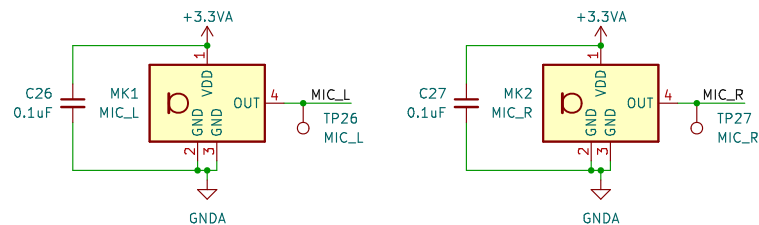
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KiCad E.D.A. kicad 7.0.9+dfsg-1

Rev: 2
Id: 2/7

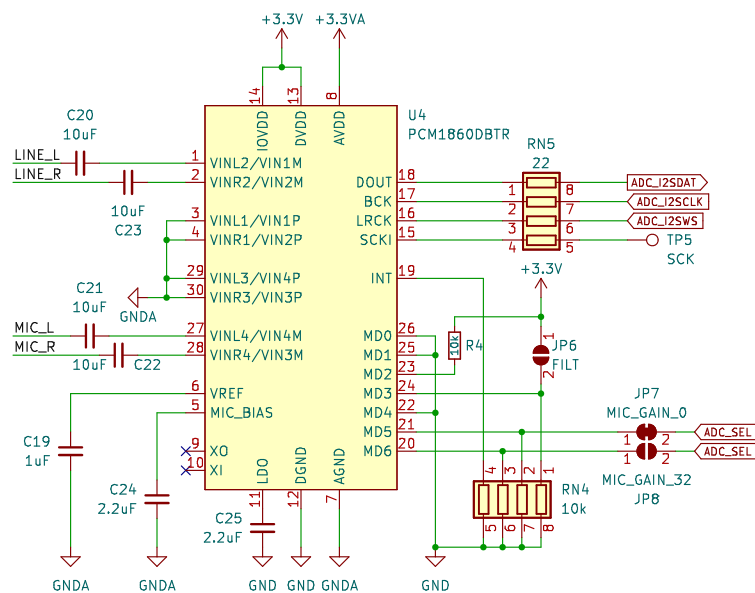
Line Input



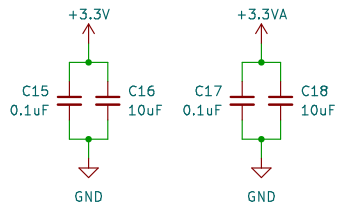
Stereo Microphones



ADC



Power Filtering



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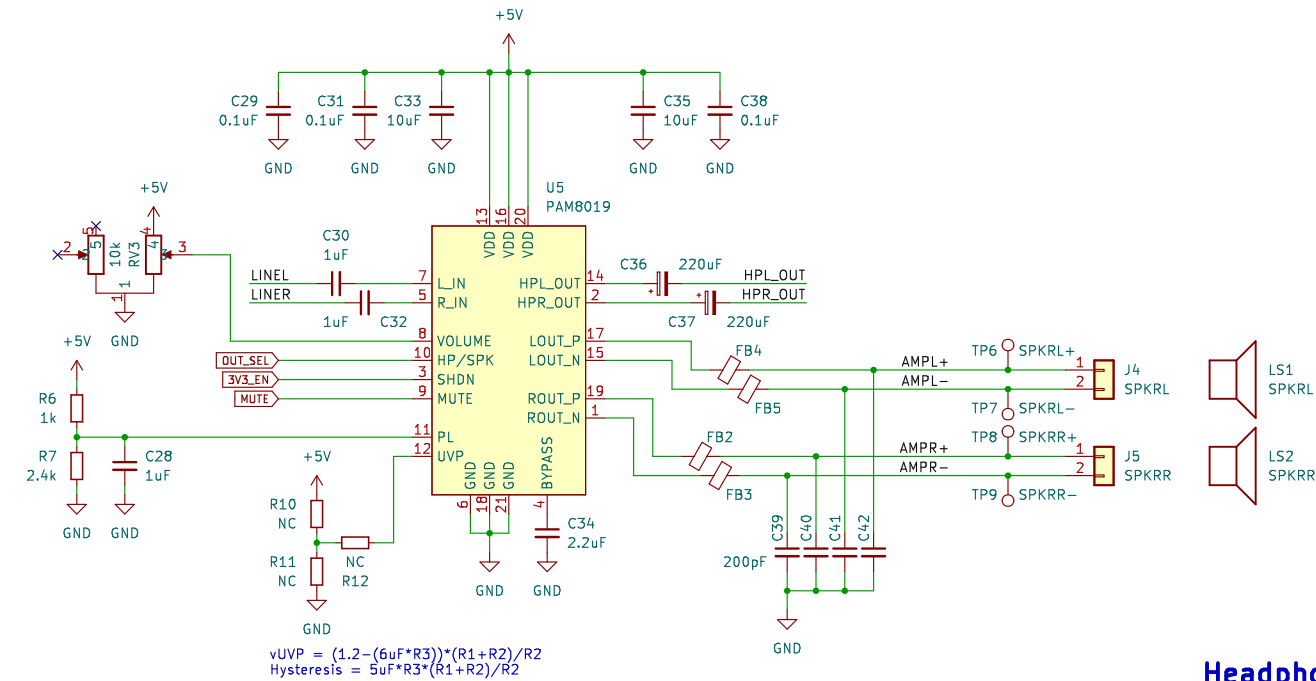
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File: i2s_adc.kicad_sch

Title: pico_synth_sandbox - I2S ADC

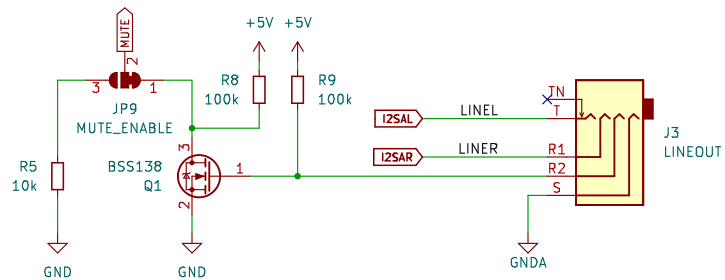
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KiCad E.D.A. kicad 7.0.9+dfsg-1

Rev: 2
Id: 3/7

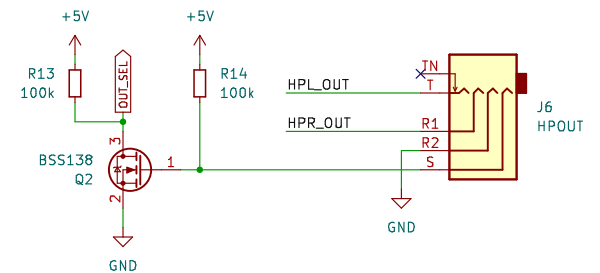
Stereo Speaker/Headphones Amplifier



Line Output



Headphones Output



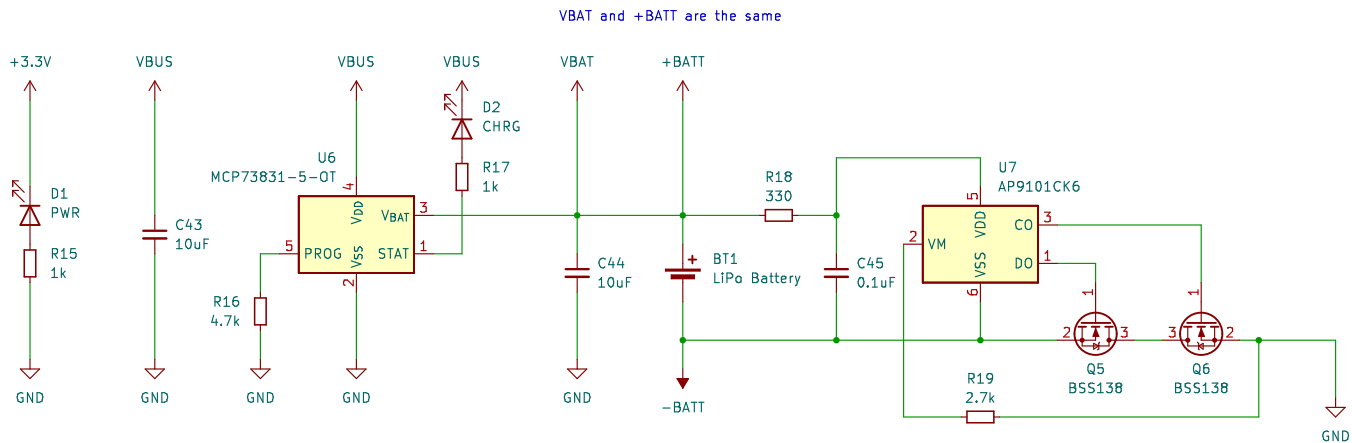
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Sheet: /Audio Output/
File: audio_out.kicad_sch

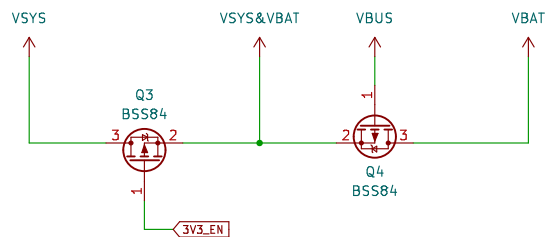
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Size: A Date: 2023-11-30
KiCad E.D.A. kicad 7.0.9+dfsg-1

Rev: 2
Id: 4/7



VBUS/VBAT Power Switching and Power Enable Switch



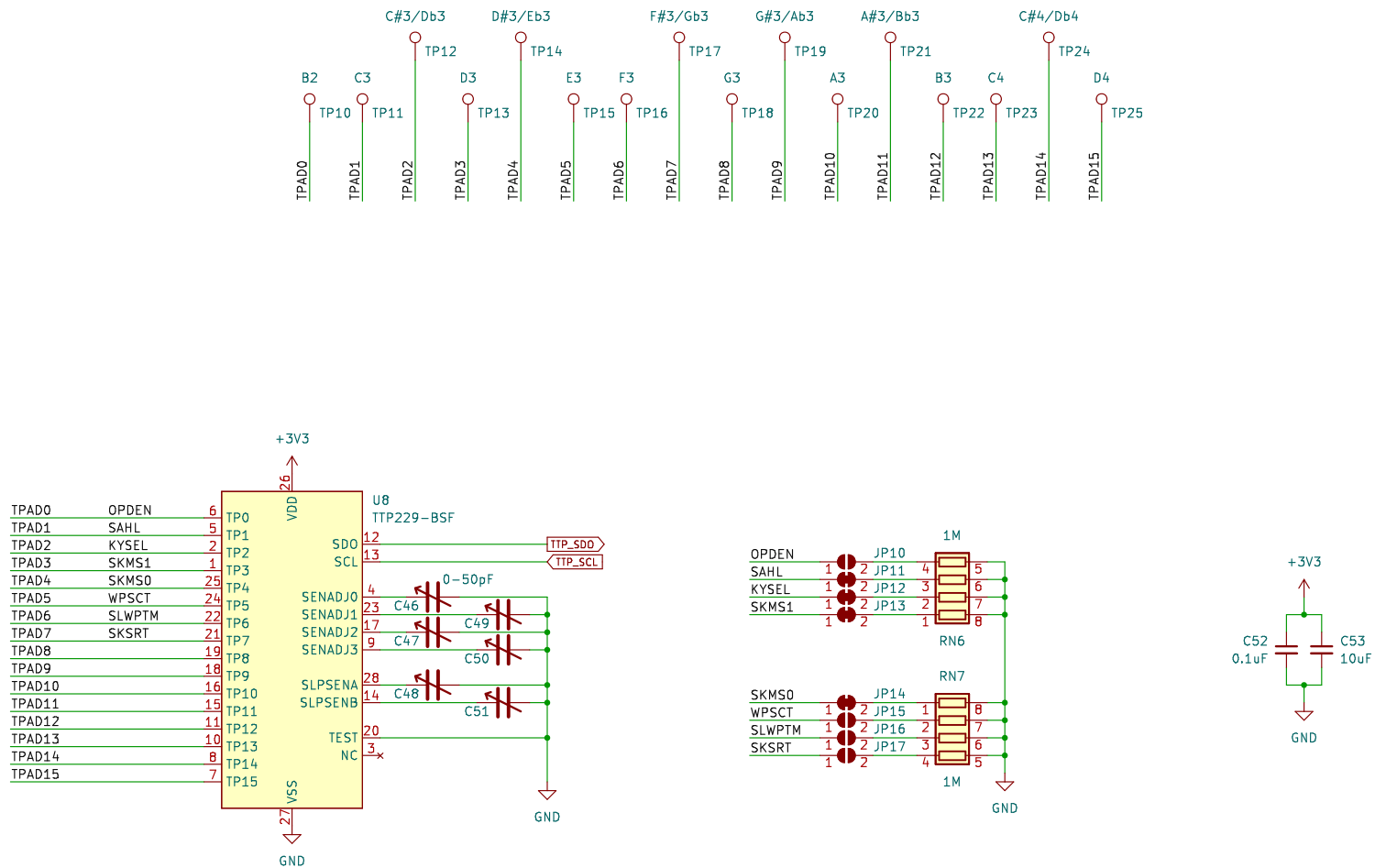
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Sheet: /Battery/
File: battery.kicad_sch

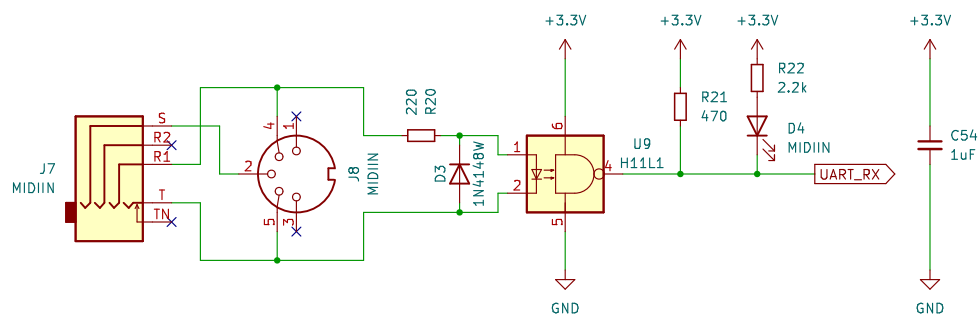
Title: pico-synth-sandbox - LiPo Battery Power & Charging

Size: A Date: 2023-09-19
KiCad E.D.A. kicad 7.0.9+dfsg-1

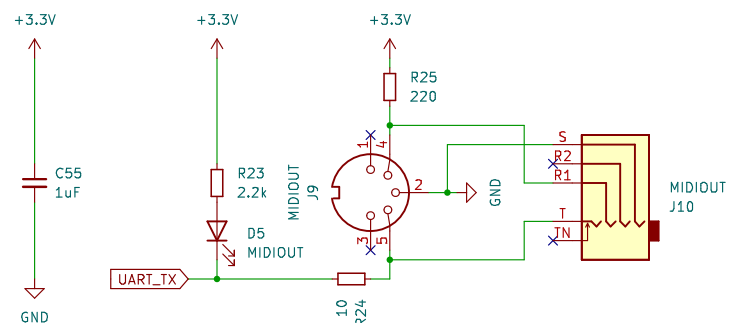
Rev: 2
Id: 5/7



Midi Input



Midi Output



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Sheet: /MIDI/
File: midi.kicad_sch

Title: pico_synth_sandbox – MIDI Input & Output

Size: A Date: 2023-11-29
KiCad E.D.A. kicad 7.0.9+dfsg-1

Rev: 2
Id: 7/7