

Sheet: power

File: power.sch

Sheet: coreboard

File: coreboard.sch

Sheet: mechanics

File: mechanics.sch

Sheet: audio-codec

File: audio-codec.sch

Sheet: audio-inputs

File: audio-inputs.sch

Sheet: audio-outputs

File: audio-outputs.sch

Sheet: audio-headphones

File: audio-headphones.sch

Sheet: control-voltage

File: control-voltage.sch

Sheet: spdif

File: spdif.sch

Sheet: usb

File: usb.sch

Sheet: midi

File: midi.sch

Sheet: control-chain

File: control-chain.sch

Notes

- All resistors named as RA* must have at least 1% tolerance
- All non-polarized capacitors named as CA* must use NPO Temp. Coef.
- All other non-polarized capacitors should use X7R Temp. Coef.
- Decoupling caps must be placed as close as possible of the IC power pins
- IC's such as the codec, ADC, DAC, headphone amplifier, EEPROM should not be changed to maintain software compatibility

USB outp Power: 500mA
Inp Power: 12V 700mA
<https://github.com/moddevices/mod-hw-duoX>
DuoX Audio processing board

MOD Devices GmbH

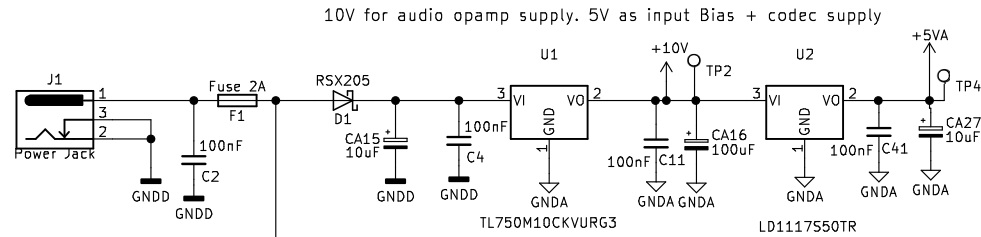
Sheet: /
File: bottom-board.sch

Title: MOD DuoX – Bottom Board

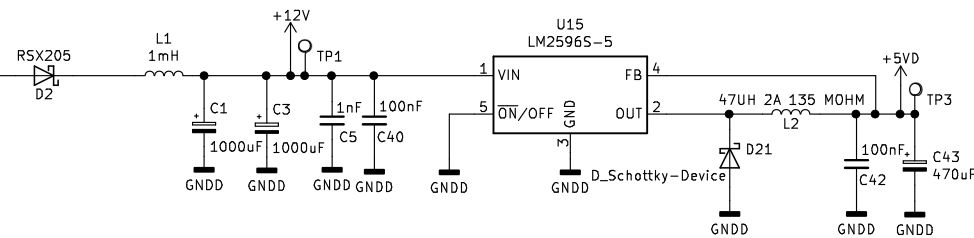
Size: A4 Date: 2021-11-11
KiCad E.D.A. kicad 5.1.11-e4df9d881f92ubuntu20.04.1

Rev: Rev 1.05
Id: 1/13

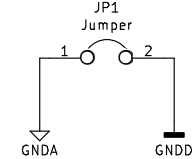
Analog



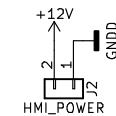
Digital



Only to be merged at codec ground



Controller power connector



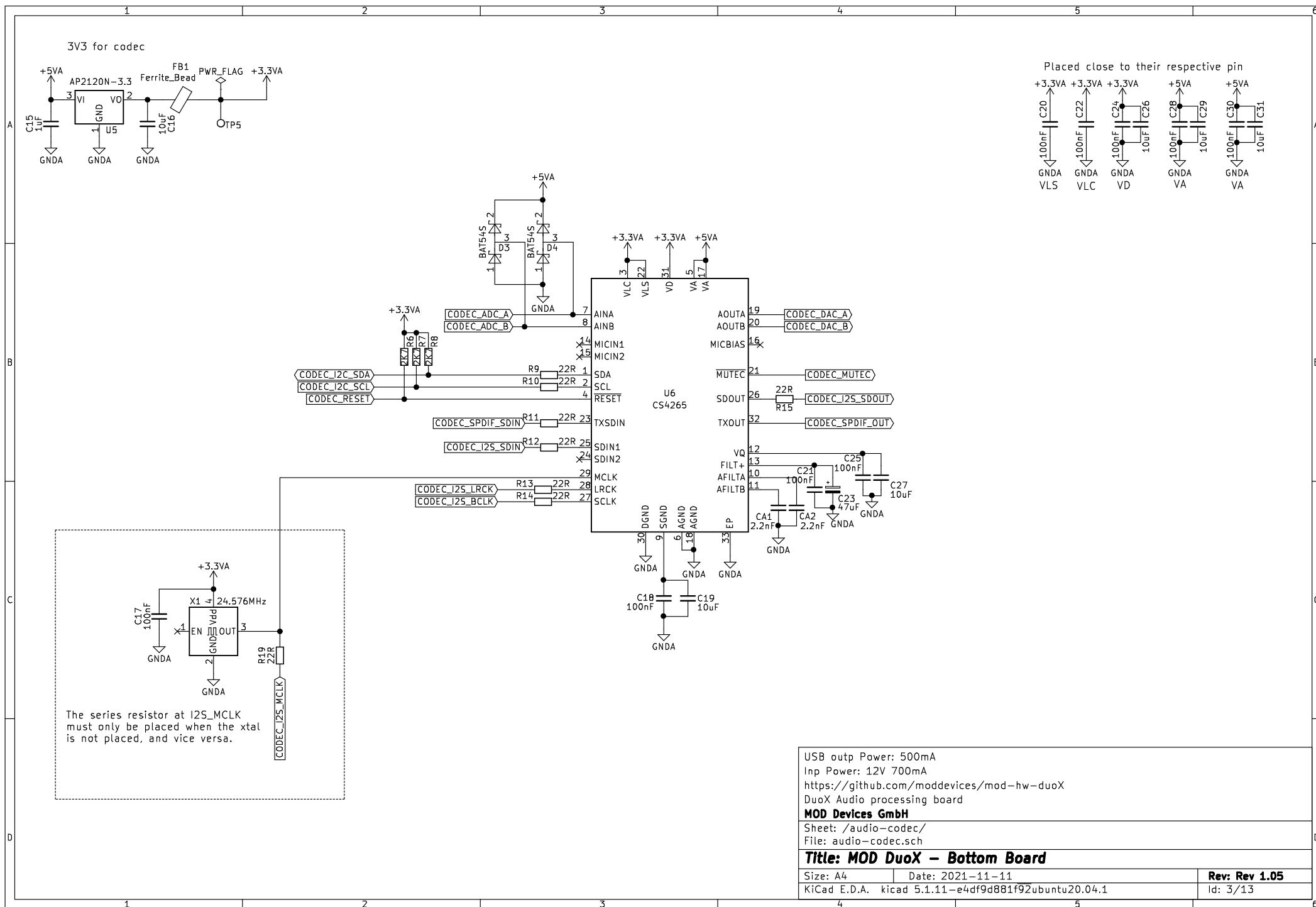
USB outp Power: 500mA
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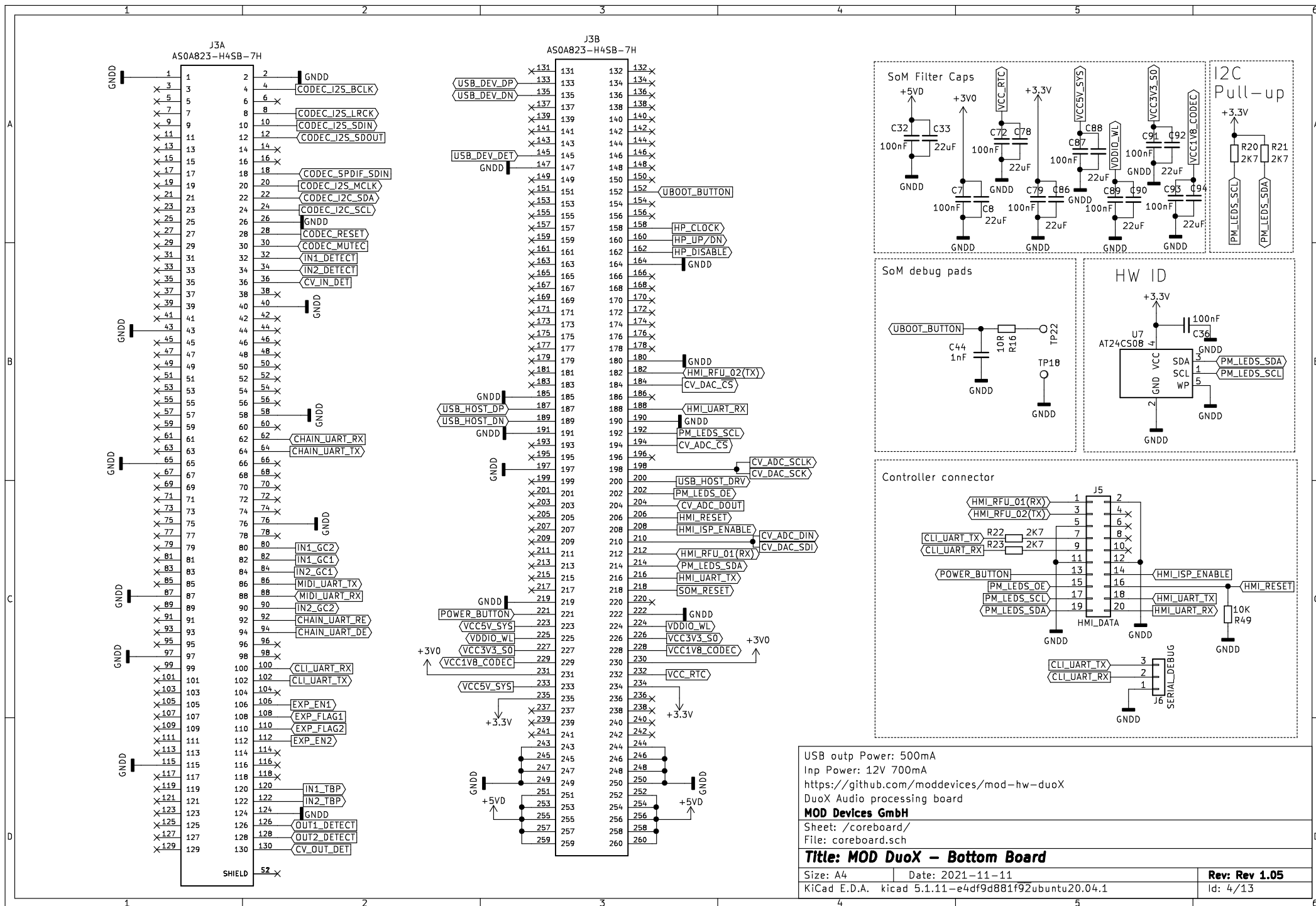
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File: power.sch

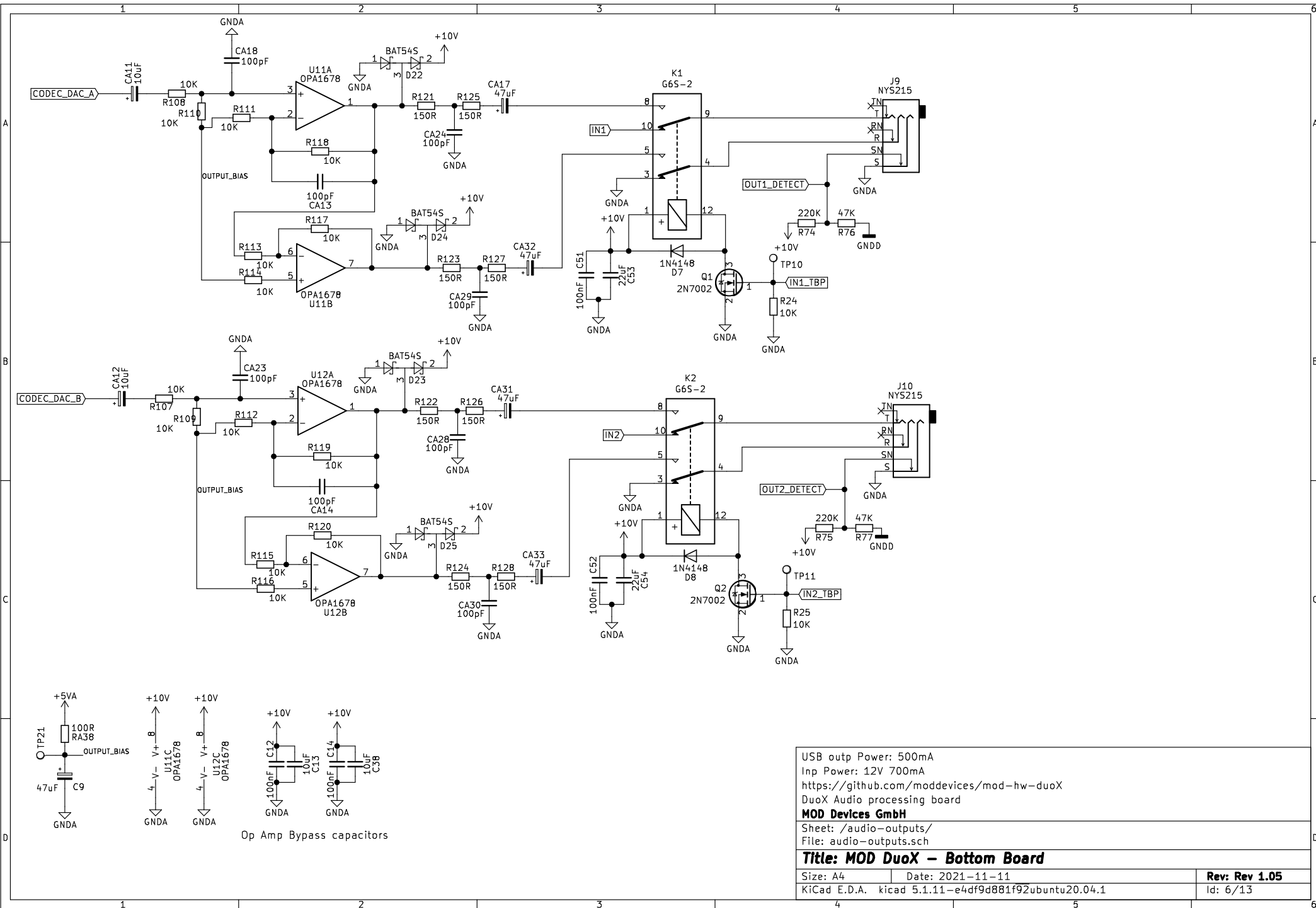
Title: MOD DuoX – Bottom Board

Size: A4 Date: 2021-11-11
KiCad E.D.A. kicad 5.1.11-e4df9d881f92ubuntu20.04.1

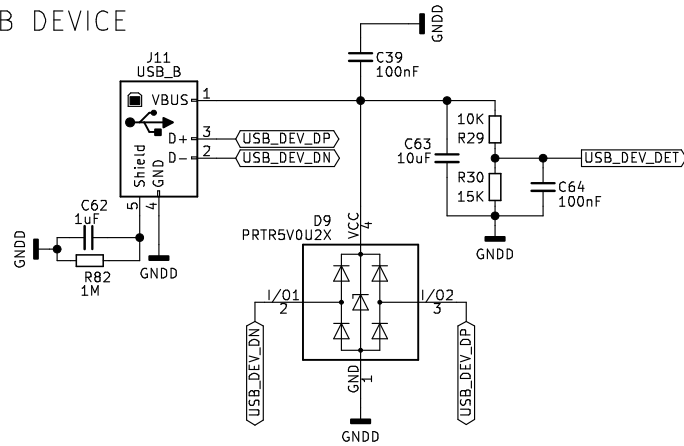
Rev: Rev 1.05
Id: 2/13



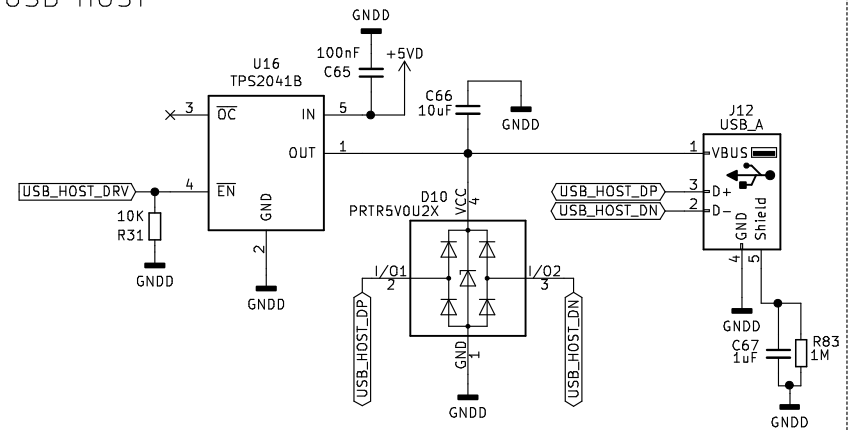




USB DEVICE



USB HOST



USB outp Power: 500mA
 Inp Power: 12V 700mA
<https://github.com/moddevices/mod-hw-duoX>
 DuoX Audio processing board
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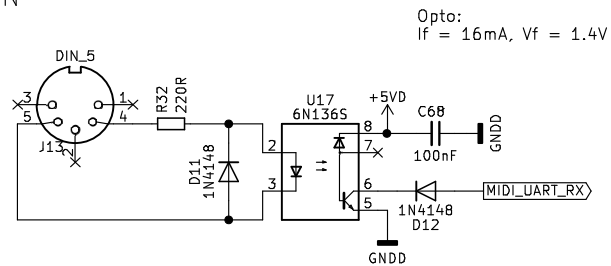
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 File: usb.sch

Title: MOD DuoX – Bottom Board

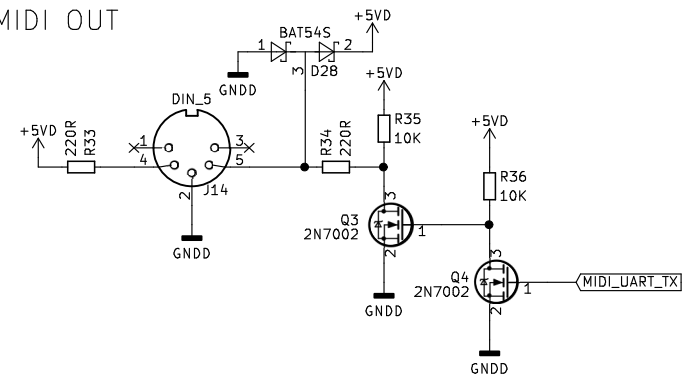
Size: A4 Date: 2021-11-11
 KiCad E.D.A. kicad 5.1.11-e4df9d881f92ubuntu20.04.1

Rev: Rev 1.05
 Id: 8/13

MIDI IN



MIDI OUT



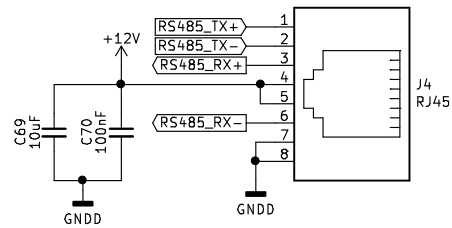
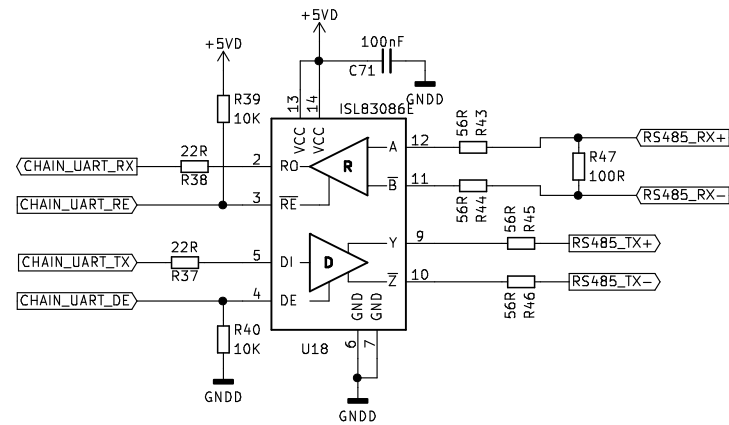
USB outp Power: 500mA
 Inp Power: 12V 700mA
<https://github.com/moddevices/mod-hw-duoX>
 DuoX Audio processing board
MOD Devices GmbH

Sheet: /midi/
 File: midi.sch

Title: MOD DuoX – Bottom Board

Size: A4 Date: 2021-11-11
 KiCad E.D.A. kicad 5.1.11-e4df9d881f92ubuntu20.04.1

Rev: Rev 1.05
 Id: 9/13



USB outp Power: 500mA
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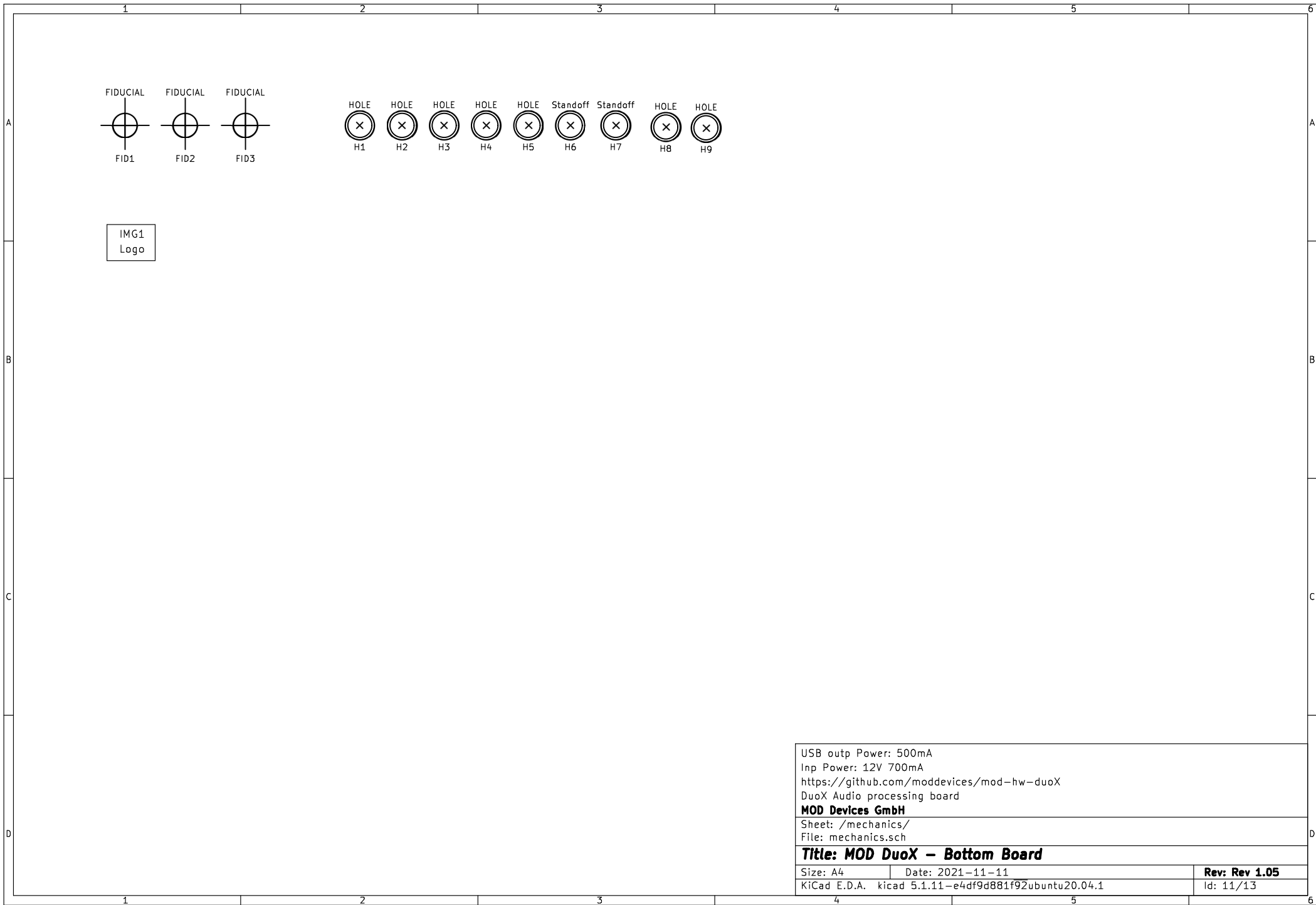
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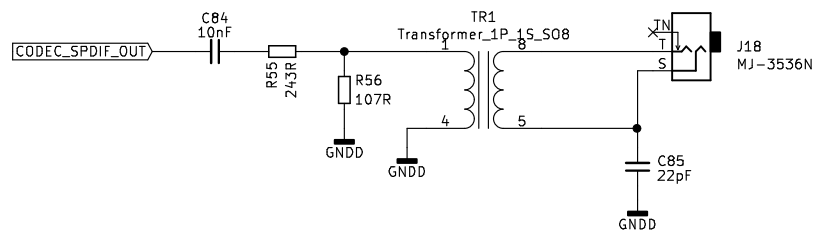
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Title: MOD DuoX – Bottom Board

Size: A4
 Date: 2021-11-11
 KiCad E.D.A. kicad 5.1.11-e4df9d881f92ubuntu20.04.1

Rev: Rev 1.05
 Id: 10/13





USB outp Power: 500mA Inp Power: 12V 700mA https://github.com/moddevices/mod-hw-duoX DuoX Audio processing board MOD Devices GmbH		
Sheet: /spdif/ File: spdif.sch		
Title: MOD DuoX – Bottom Board		
Size: A4	Date: 2021-11-11	Rev: Rev 1.05
KiCad E.D.A. kicad 5.1.11-e4df9d881f92ubuntu20.04.1		Id: 13/13