

H201
MountingHole

H202
MountingHole

Prototype 2

Jannik Beyerstedt (jtbx)

Sheet: /Stage Line In + Microphone Mix and Line Out/
File: c3lingo_unit-mix_io.kicad_sch

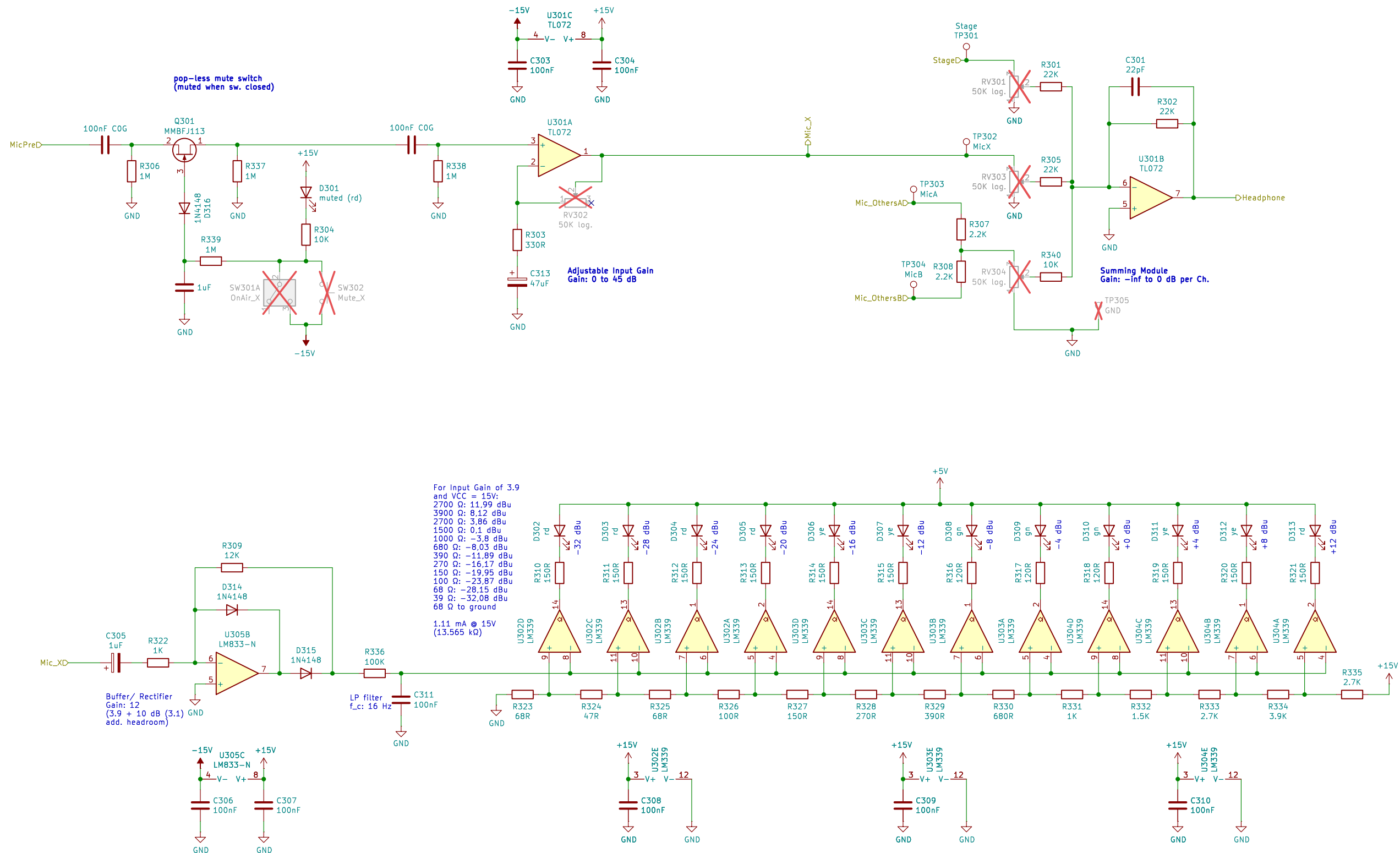
Title: c3lingo interpreter unit -- main I/O

Size: A4 Date: 2024-09-08

KiCad E.D.A. 8.0.4

Rev: v0.3.3

Id: 2/8



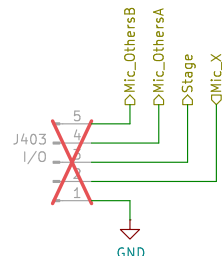
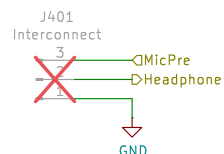
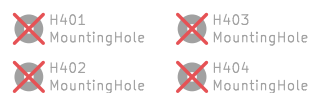
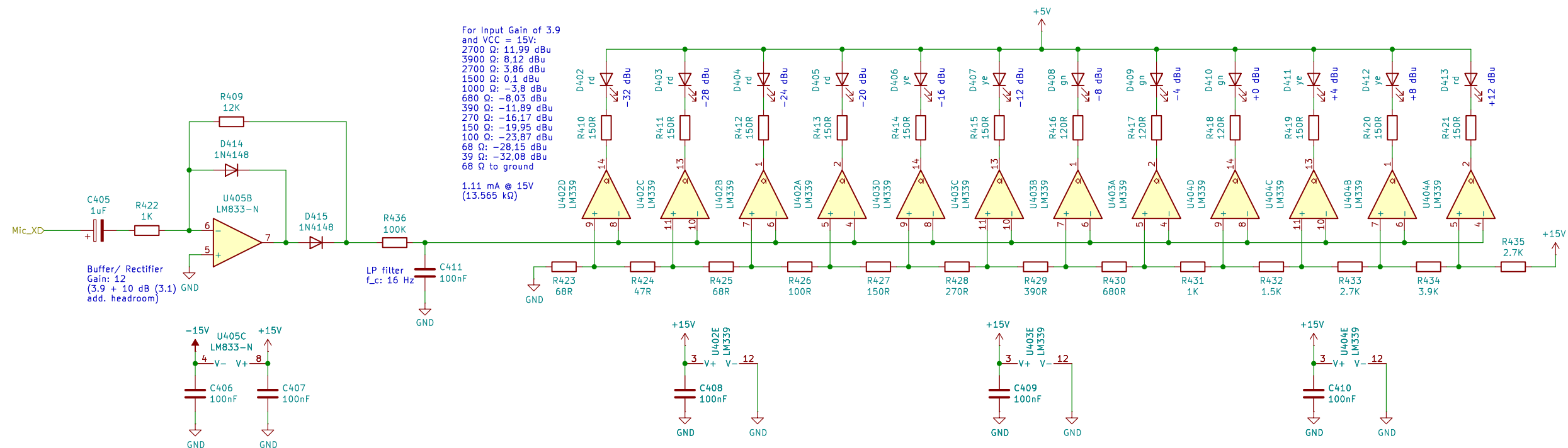
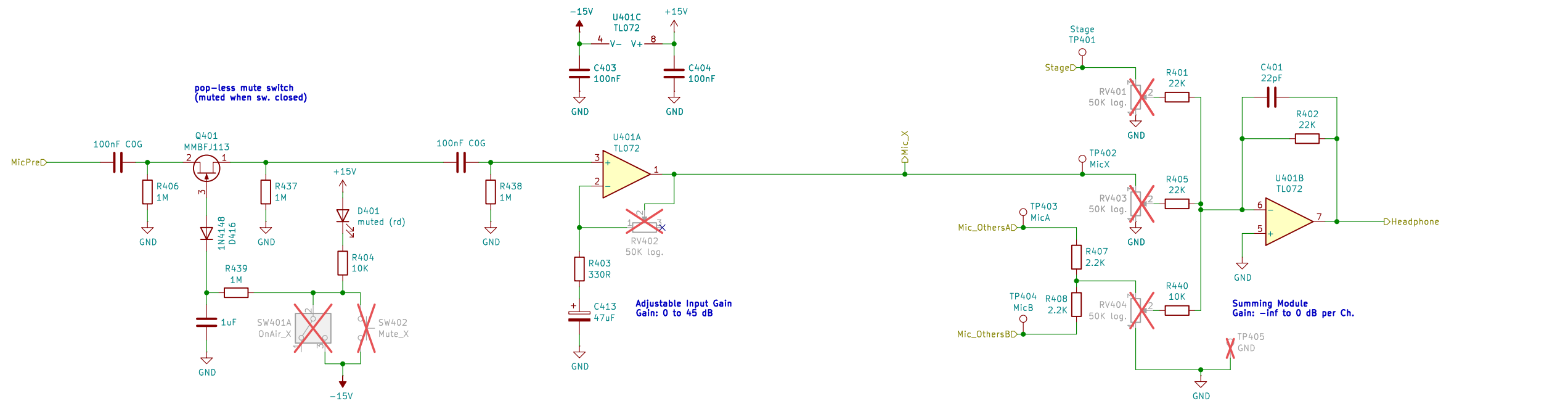
H301 MountingHole
H302 MountingHole
H303 MountingHole
H304 MountingHole

J301 Interconnect
MicPre
Headphone

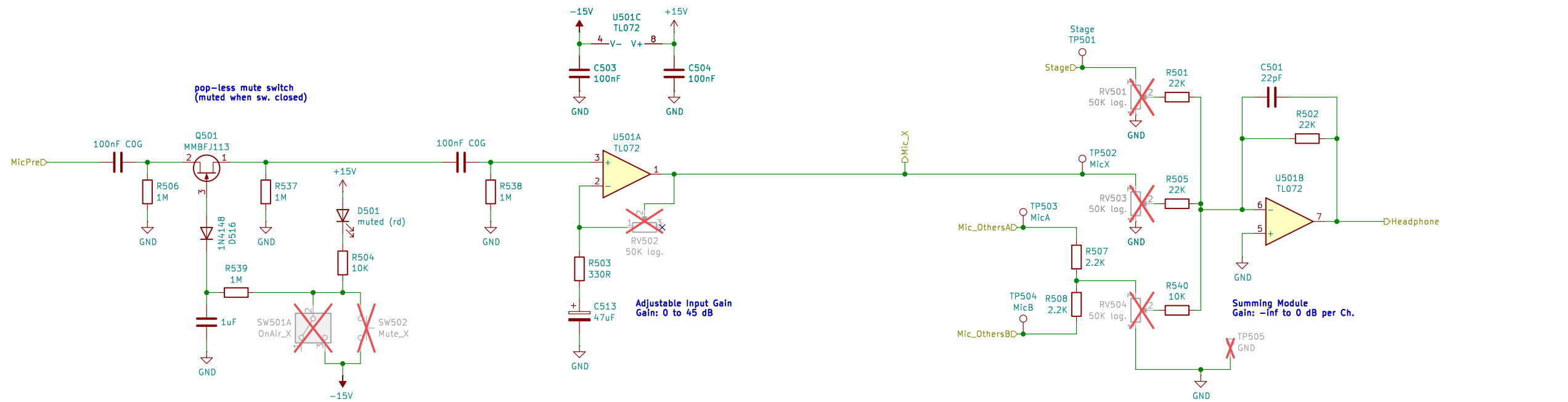
J302 PowerSupply
+5V
-15V
+15V

J303 I/O
Mic_OthersB
Mic_OthersA
Stage
Mic_X

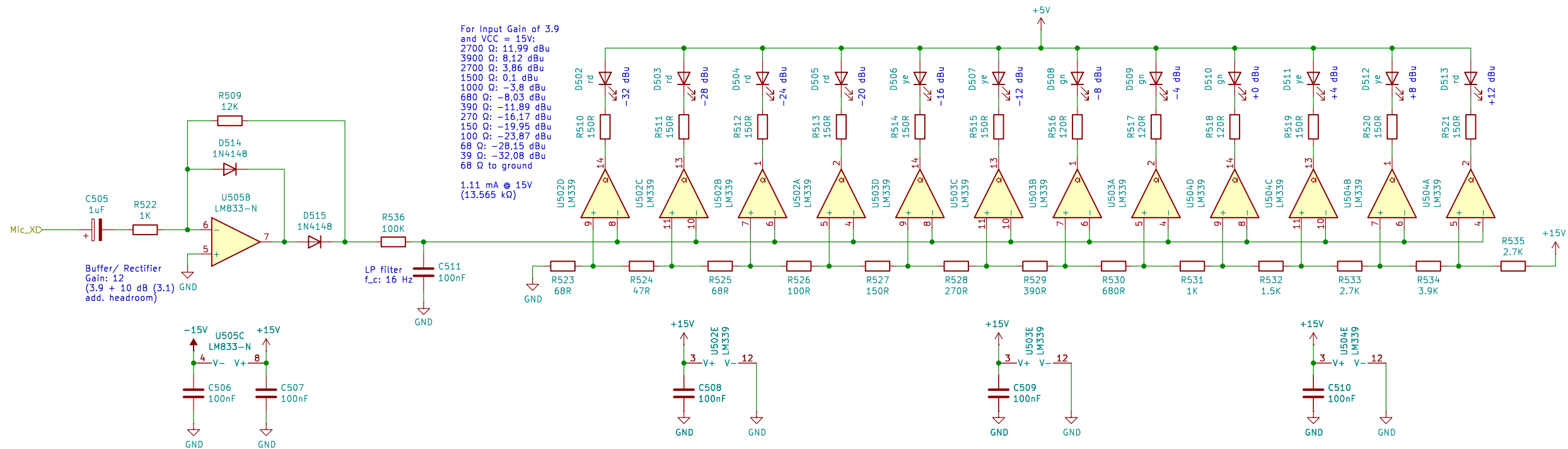
Prototype 2
Jannik Beyerstedt (jtbx)
Sheet: /Mic1 Channel Strip (Mixer)/
File: c3lingo_unit-channel_mixer.kicad_sch
Title: c3lingo interpreter unit -- channel mixer
Size: A3 Date: 2024-09-08 Rev: v0.3.3
KiCad E.D.A. 8.0.4 Id: 3/8



Prototype 2
Jannik Beyerstedt (jtbx)
Sheet: /Mic2 Channel Strip (Mixer)/
File: c3lingo_unit-channel_mixer.kicad_sch
Title: c3lingo interpreter unit -- channel mixer
Size: A3 Date: 2024-09-08 Rev: v0.3.3
KiCad E.D.A. 8.0.4 Id: 4/8



For Input Gain of 3.9
and VCC = 15V:
2700 Ω : 11.99 dBu
3900 Ω : 8.12 dBu
2700 Ω : 3.86 dBu
1500 Ω : 0.1 dBu
680 Ω : -8.03 dBu
390 Ω : -11.89 dBu
270 Ω : -16.17 dBu
150 Ω : -19.95 dBu
100 Ω : -23.87 dBu
68 Ω : -28.15 dBu
39 Ω : -32.08 dBu
68 Ω to ground
1.11 mA @ 15V
(13.565 k Ω)



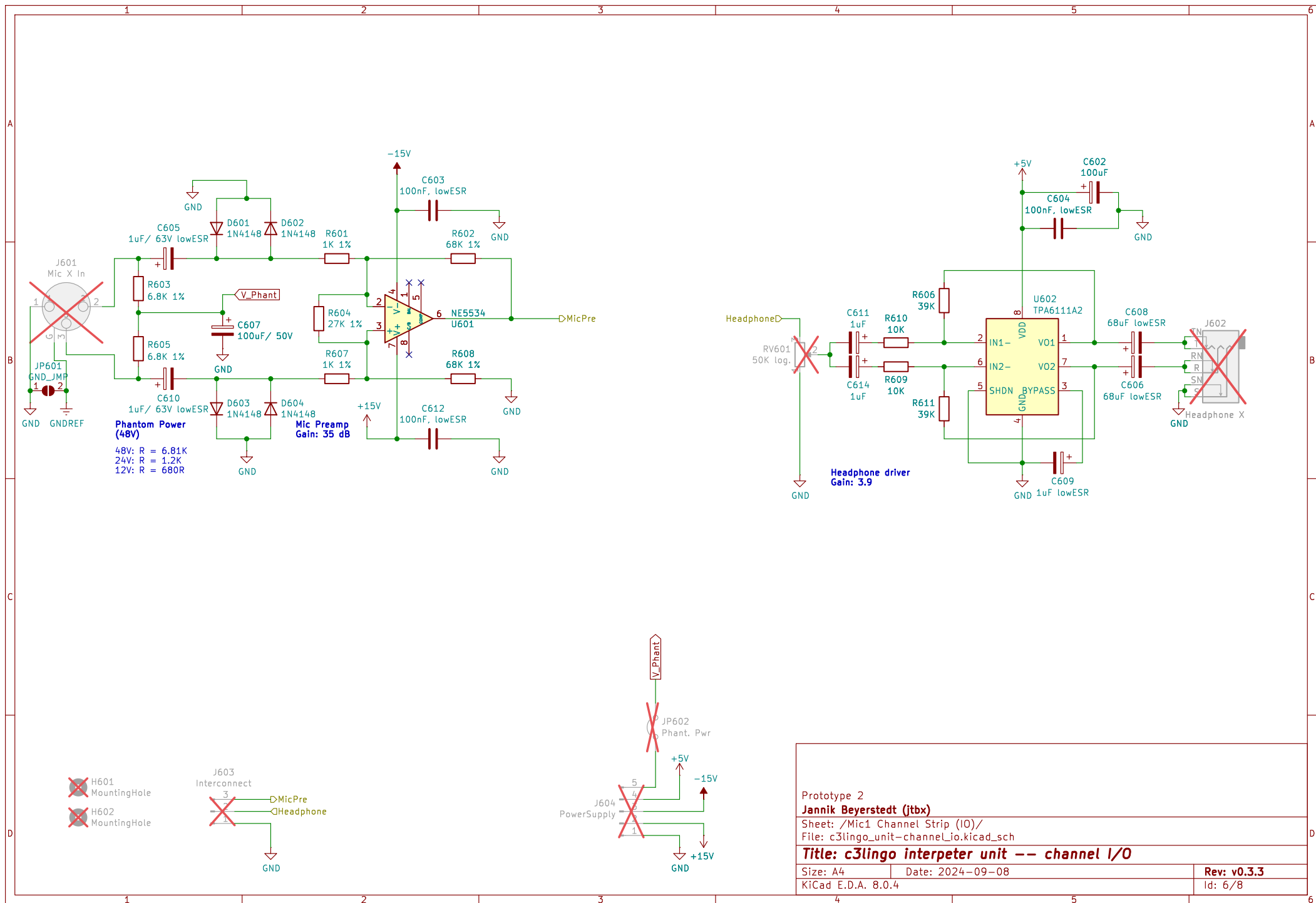
H501 MountingHole
H502 MountingHole
H503 MountingHole
H504 MountingHole

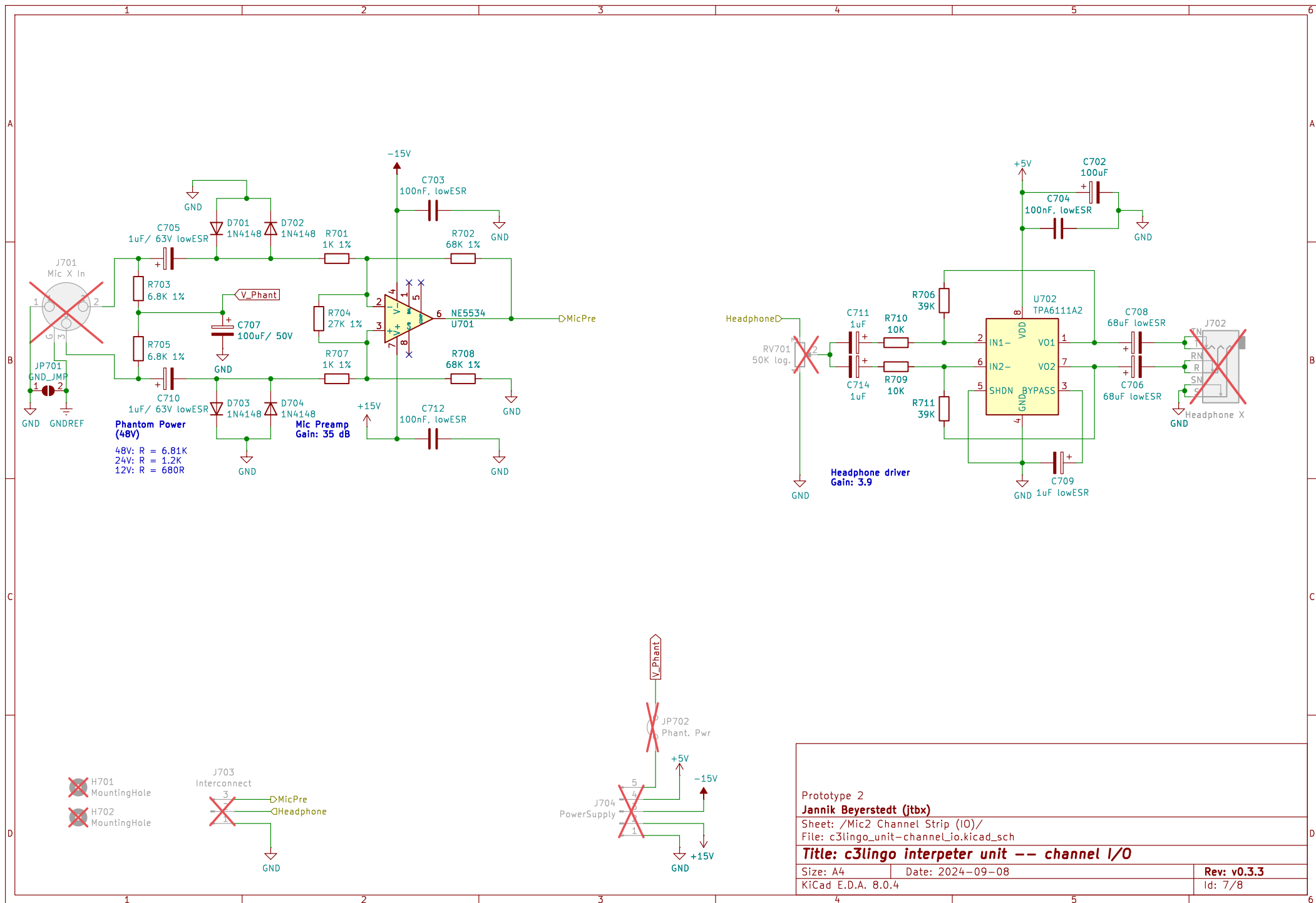
J501 Interconnect
MicPre
Headphone
GND

J502 PowerSupply
+5V
-15V
GND
+15V

J503 I/O
Mic_OthersB
Mic_OthersA
Stage
Mic_X
GND

Prototype 2
Jannik Beyerstedt (jtbx)
Sheet: /Mic3 Channel Strip (Mixer)/
File: c3lingo_unit-channel_mixer.kicad_sch
Title: c3lingo interpreter unit -- channel mixer
Size: A3 Date: 2024-09-08 Rev: v0.3.3
KiCad E.D.A. 8.0.4 Id: 5/8





Prototype 2

Jannik Beyerstedt (jtbx)

Sheet: /Mic2 Channel Strip (10)/

File: c3lingo_unit-channel_io.kicad_sch

Title: c3lingo interpreter unit -- channel I/O

Size: A4 Date: 2024-09-08

KiCad E.D.A. 8.0.4

Rev: v0.3.3

Id: 7/8

