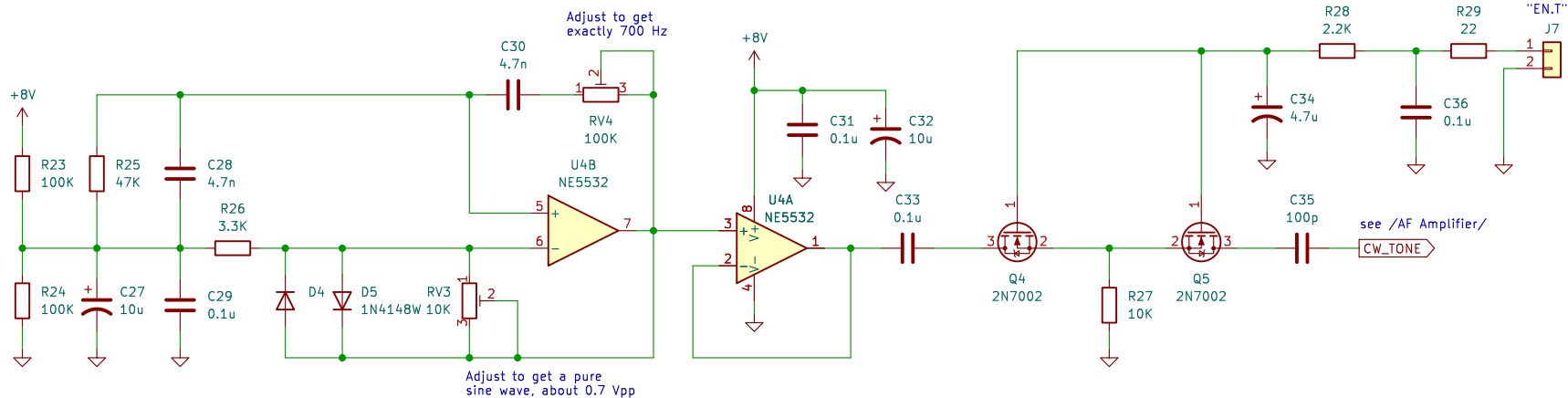
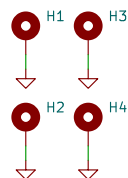
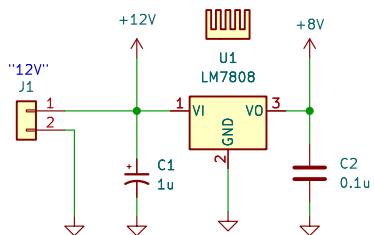


AF Amplifier

File: af-amplifier.kicad_sch



Sheet: /
File: hbr-mk2-af.kicad_sch

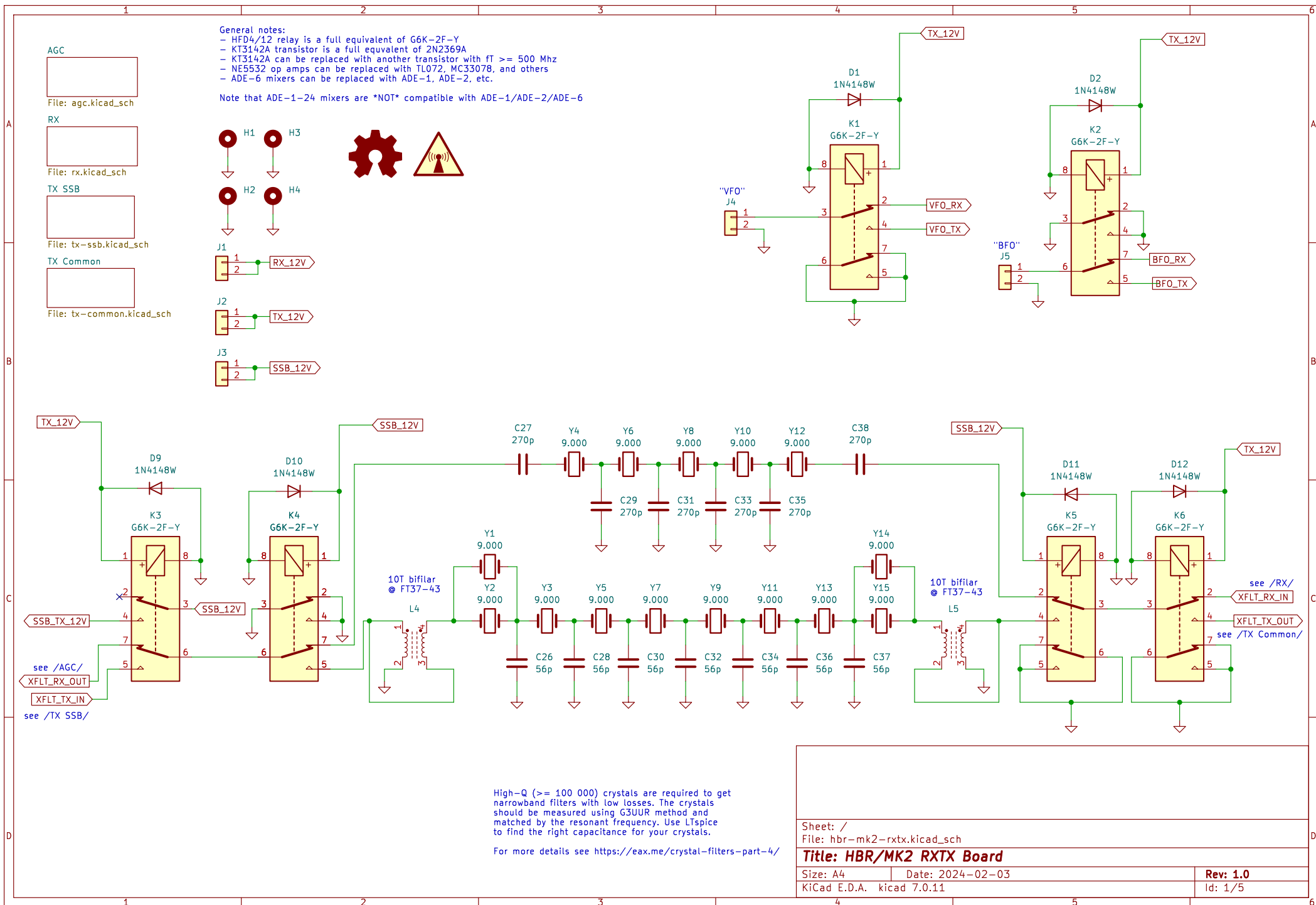
Title: HBR/MK2 AF Board

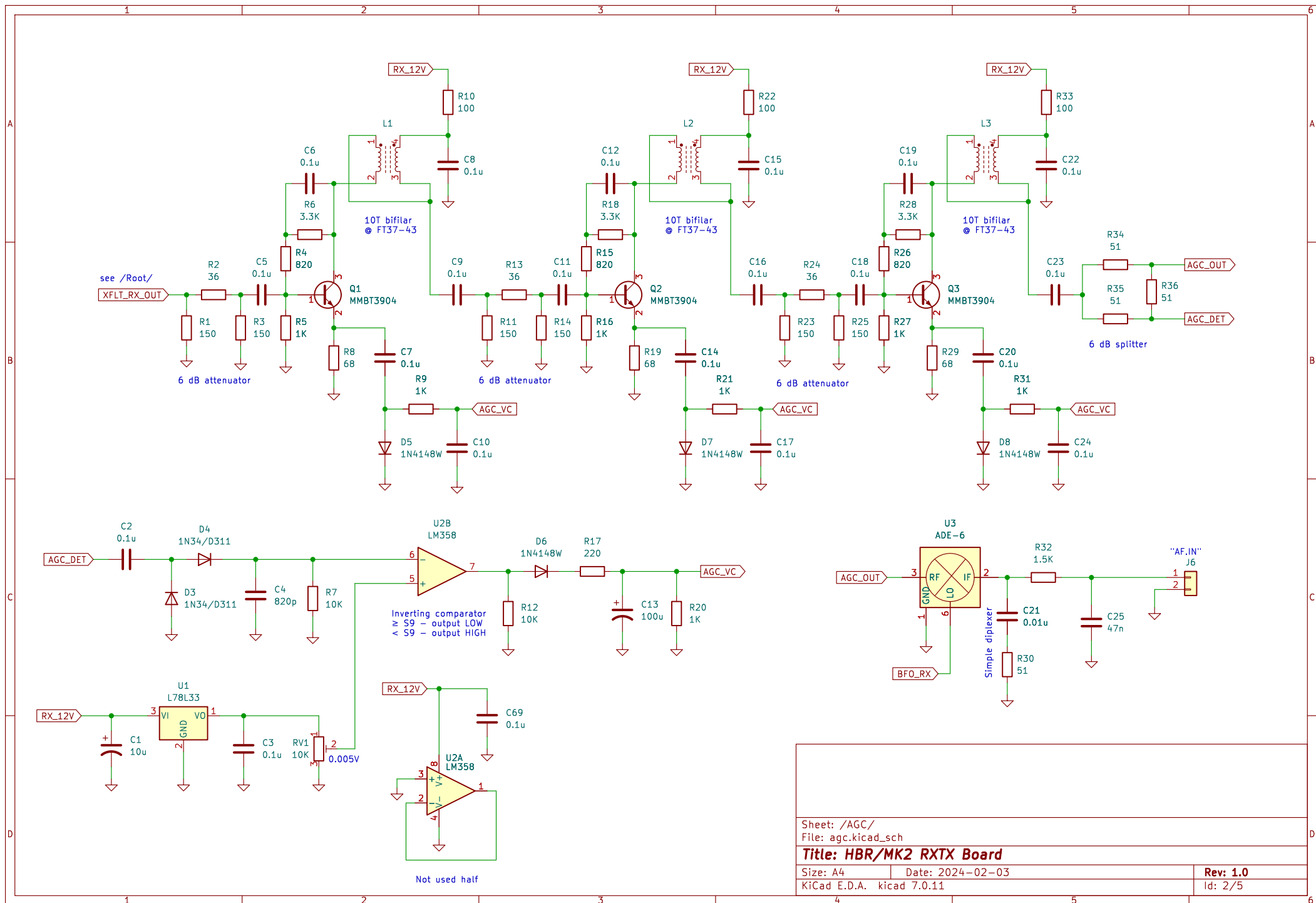
Size: A4 Date: 2024-02-03

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Rev: 1.0

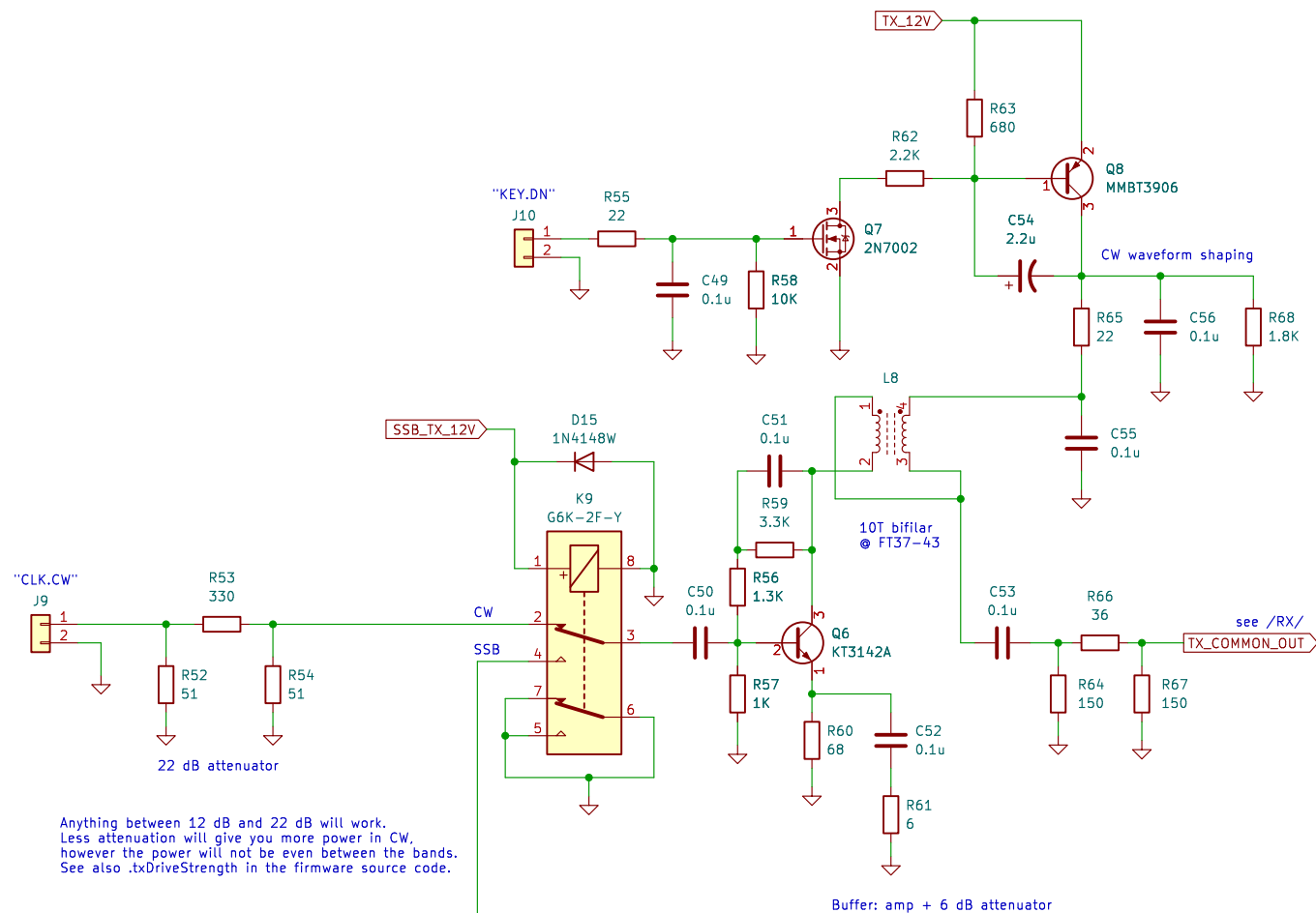
Id: 1/2







Id: 3/5



Sheet: /TX Common/
File: tx-common.kicad_sch

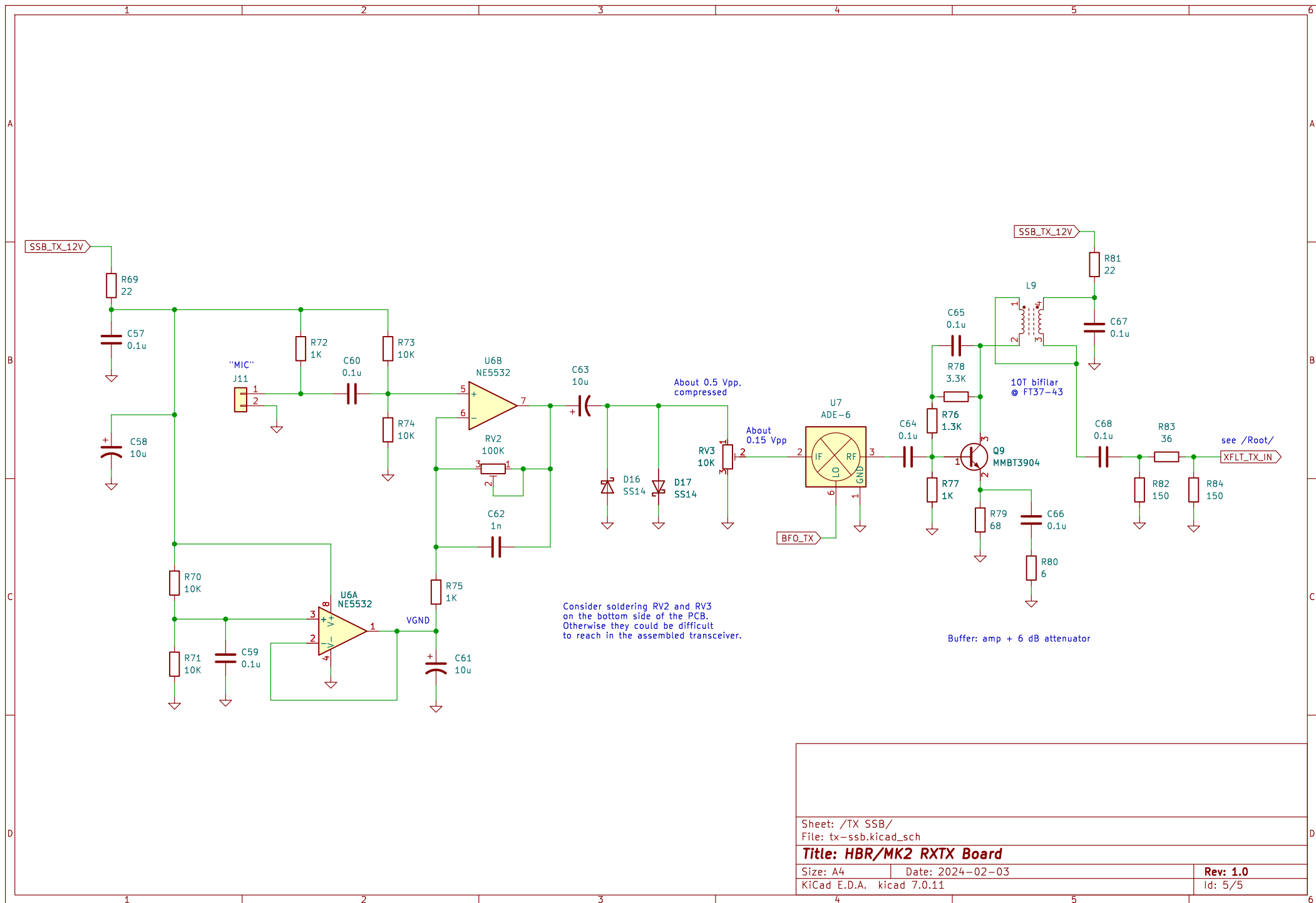
Title: HBR/MK2 RXTX Board

Size: A4 Date: 2024-02-03

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Rev: 1.0

Id: 4/5



Sheet: /TX SSB/

File: tx-ssb.kicad_sch

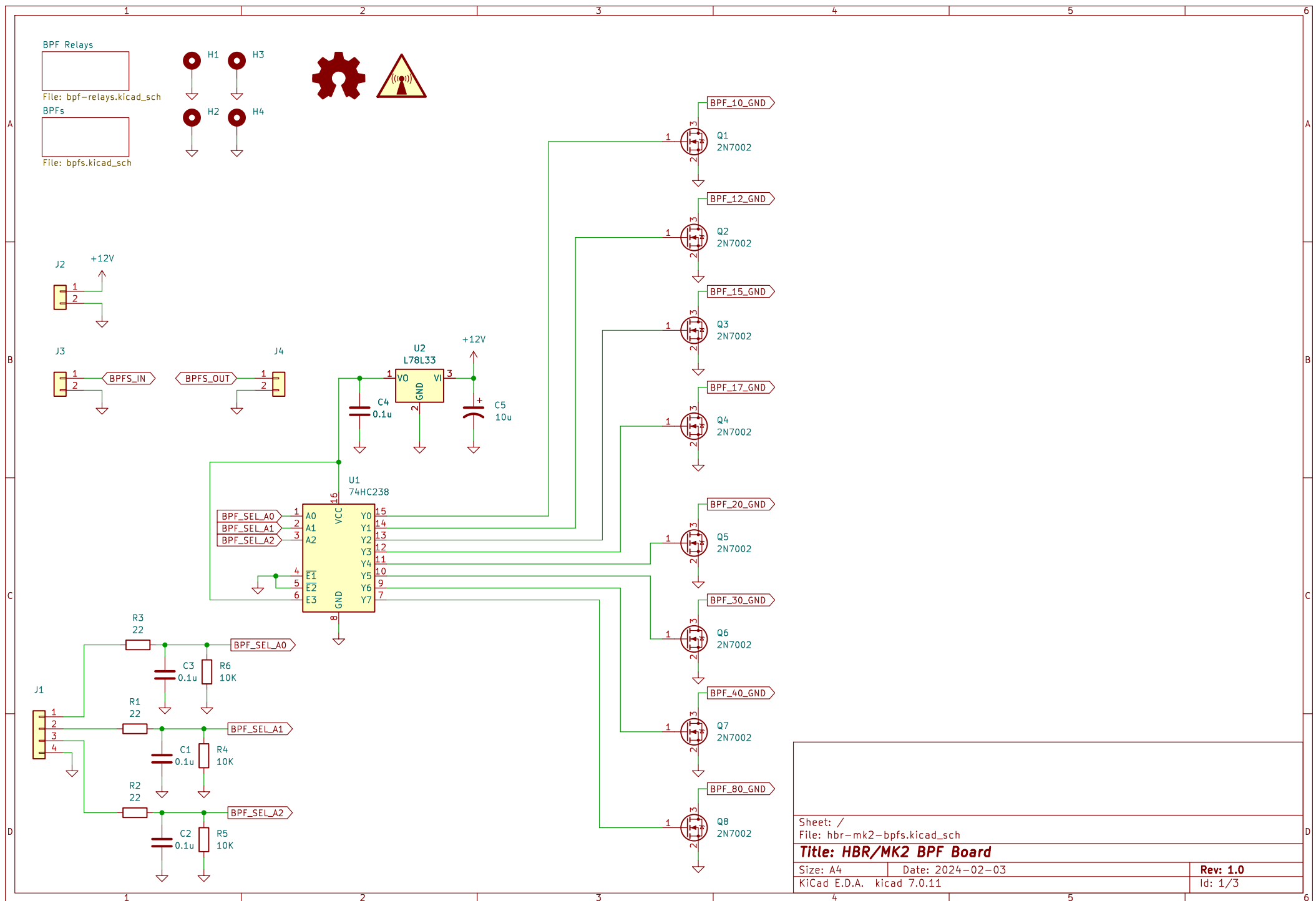
Title: HBR/MK2 RXTX Board

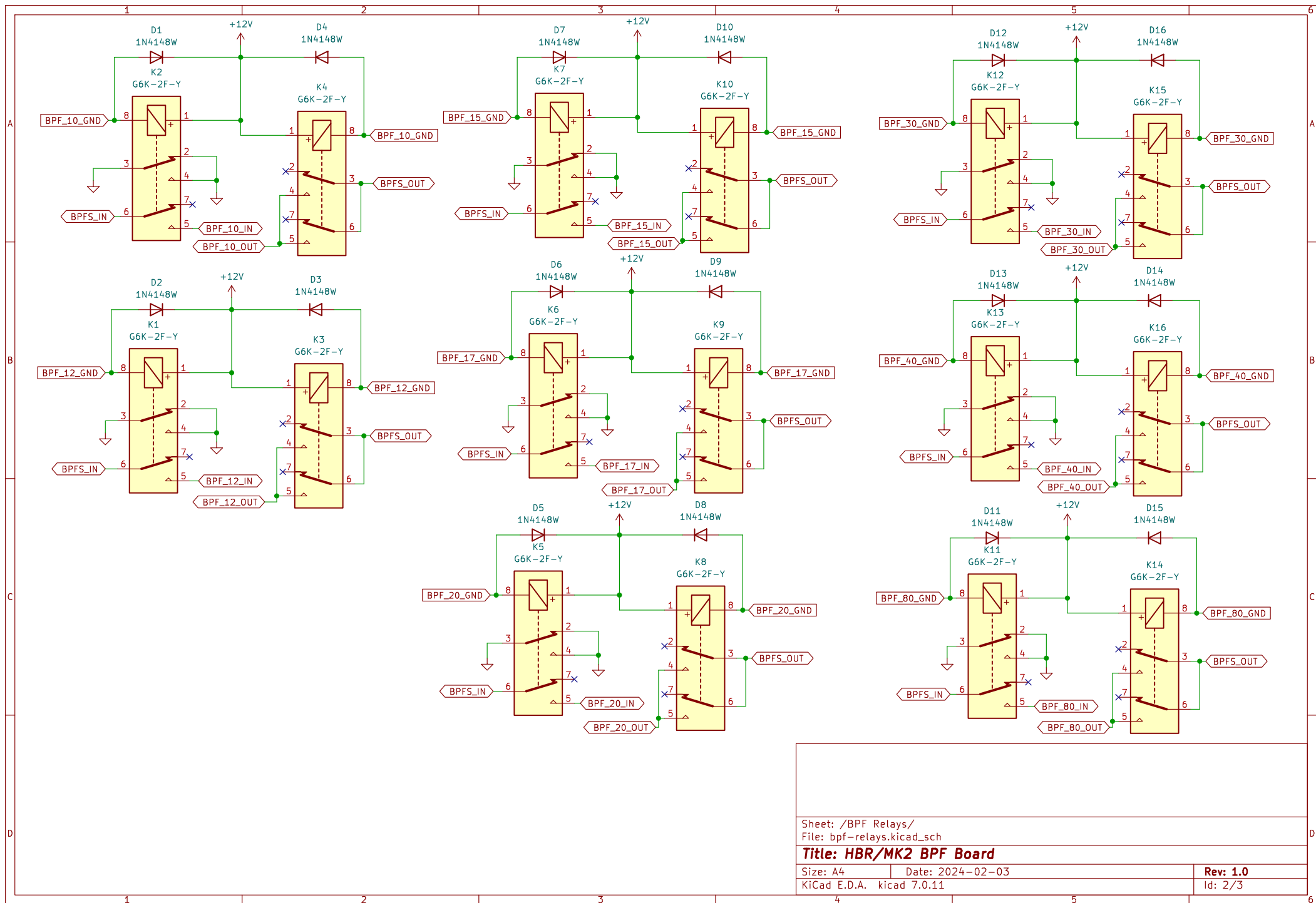
Size: A4 Date: 2024-02-03

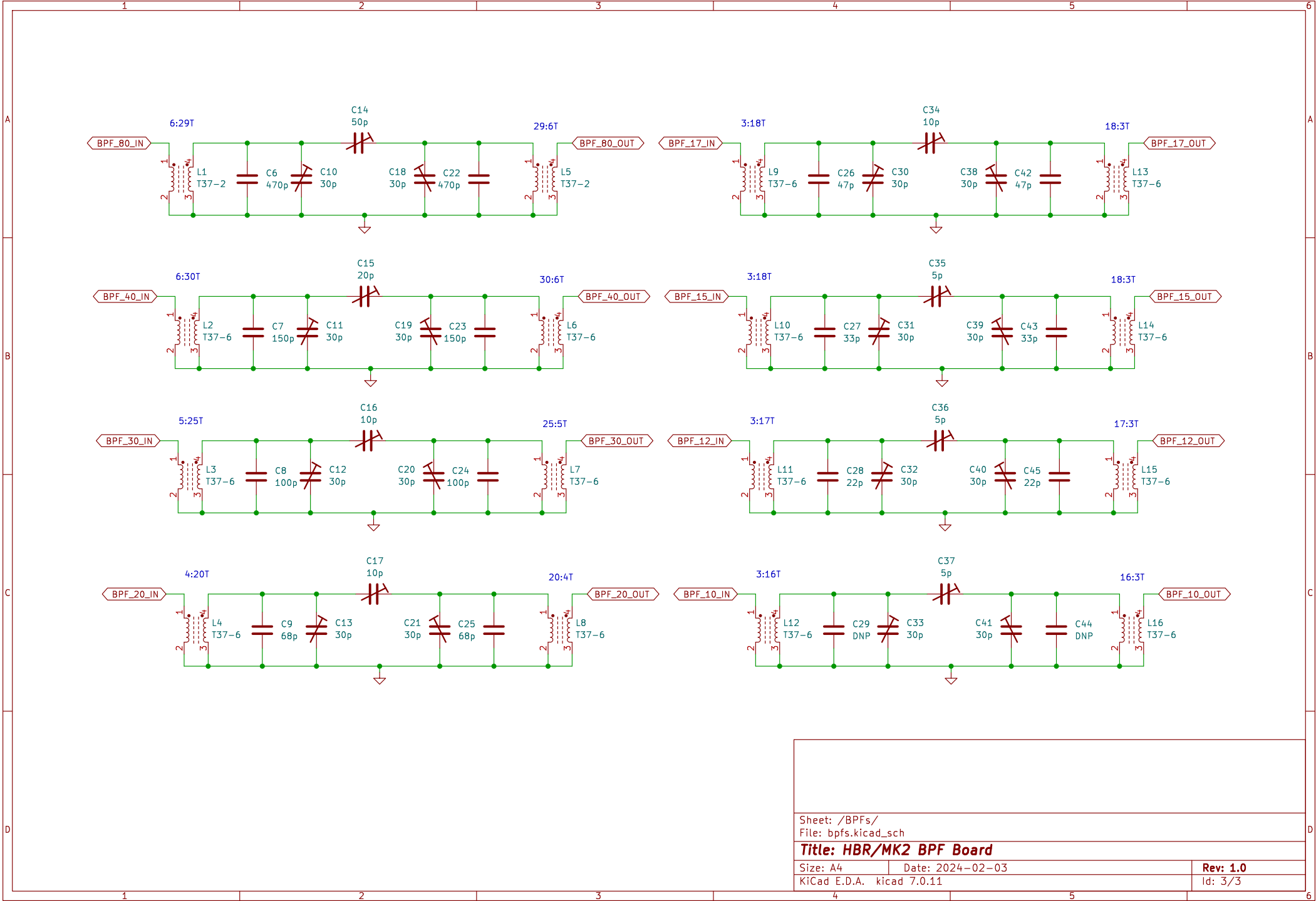
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Rev: 1.0

Id: 5/5







Class AB power amplifier is similar to the one used in uBITX
For more details see <https://eax.me/rd15hvf1-grp-power-amplifier/>

Quiescent currents: 50 mA per each RD15.
Increase to 100 mA if you want a little more gain.

Sheet: /
File: hbr-mk2-pa.kicad_sch

Title: HBR/MK2 PA Board

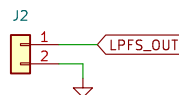
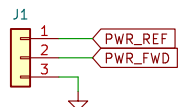
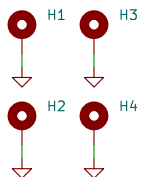
Size: A4 Date: 2024-02-03

KiCad E.D.A. kicad 7.0.11

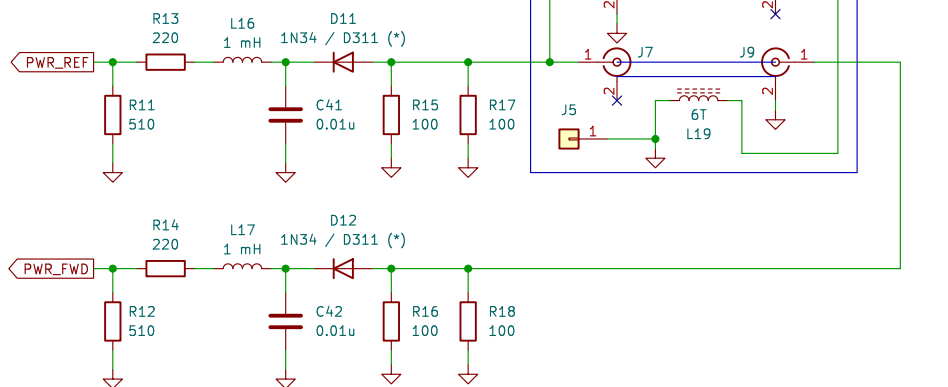
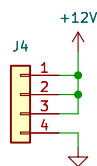
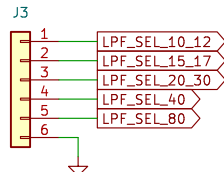
Rev: 1.0

Id: 1/1

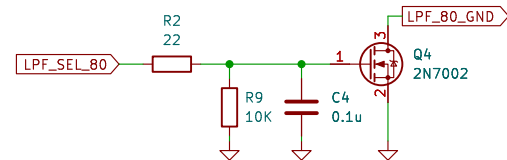
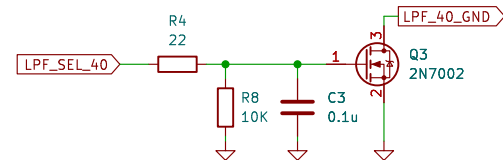
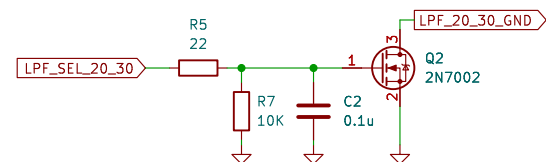
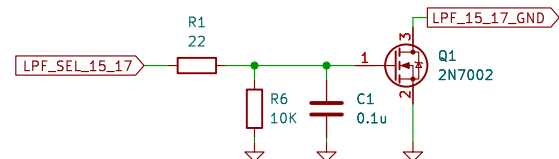
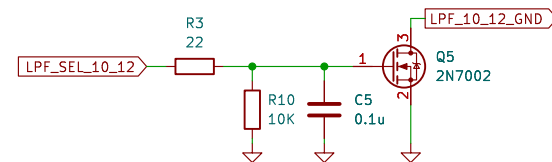
LPFs
File: lpfs.kicad_sch



← Hint: solder a 22p capacitor here if you encounter UHF oscillations during transmit (it looks like high current consumption when nothing is transmitted). Don't worry, this will not affect the sensitivity.



(*) Matched pair



Sheet: /
File: hbr-mk2-lpfs.kicad_sch

Title: HBR/MK2 LPF Board

Size: A4 Date: 2024-02-03

KiCad E.D.A. kicad 7.0.11

Rev: 1.0

Id: 1/2

