

Sheet: /Misc/
File: misc.sch

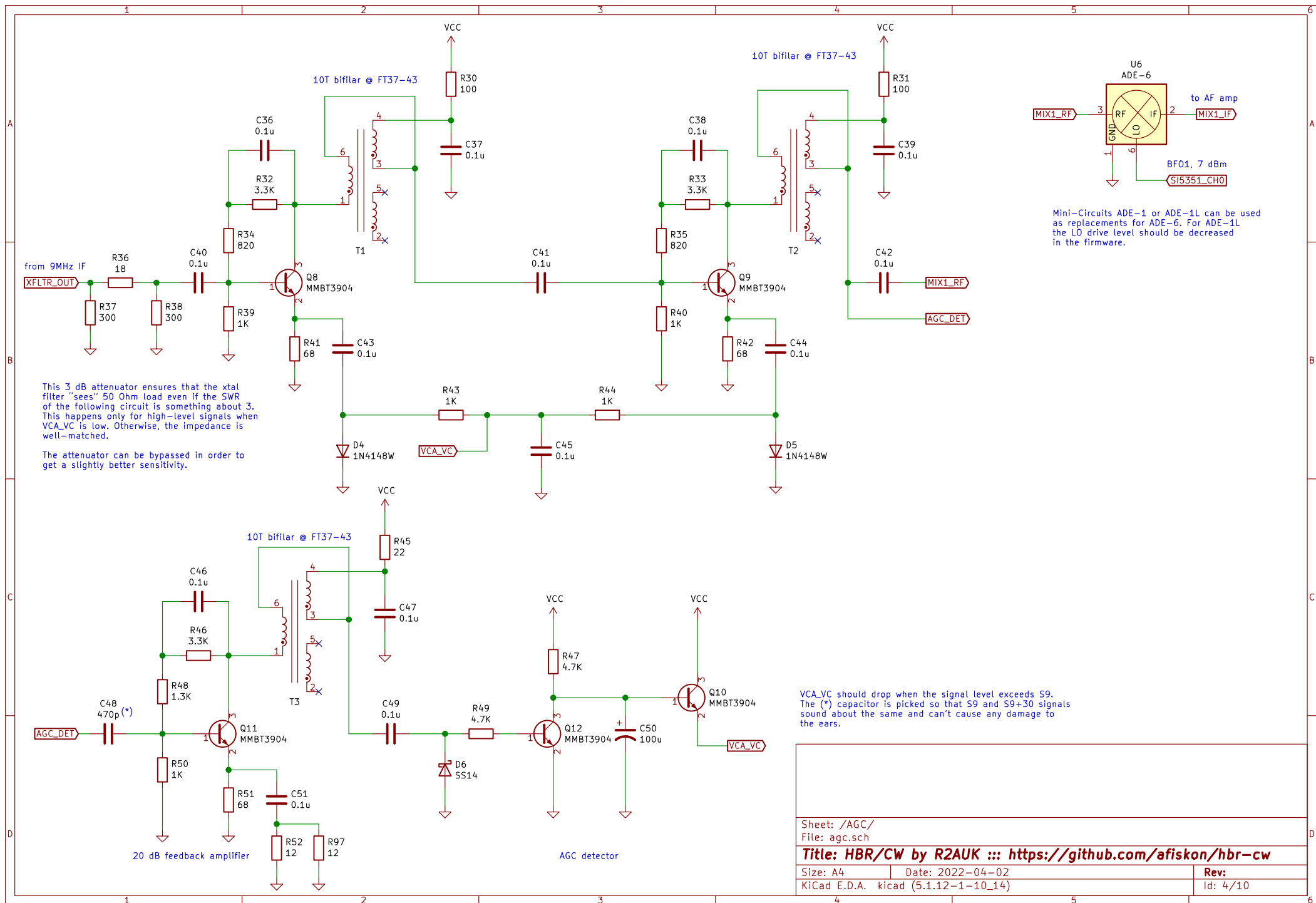
Title: HBR/CW by R2AUK ::: <https://github.com/afiskon/hbr-cw>

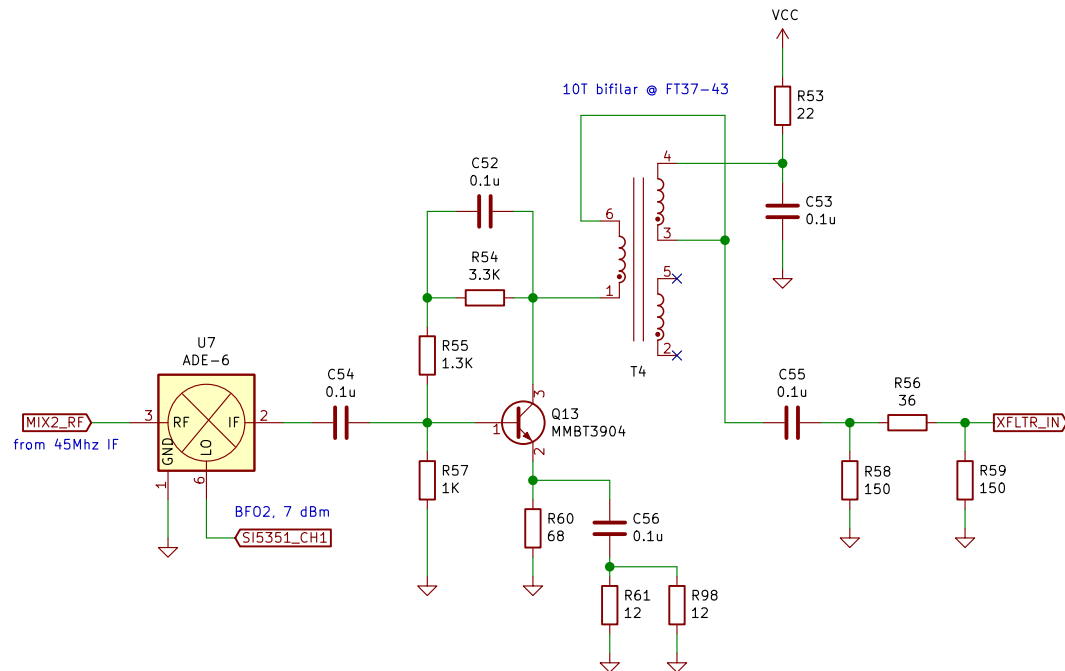
Size: A4 Date: 2022-04-02

KiCad E.D.A. kicad (5.1.12-1-10_14)

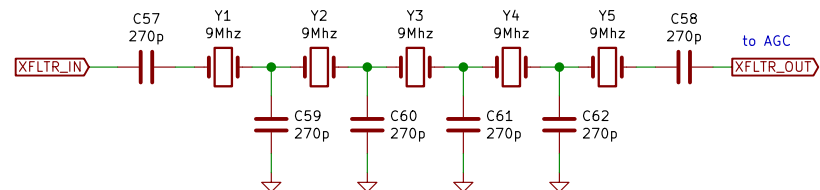
Rev:

Id: 3/10





Buffer for the mixer: 20 dB feedback amplifier + 6 dB attenuator



Xtals should be measured using G3UUR method,
and suitable capacitors should be picked in LTspice.
Xtals should be matched by the resonant frequency.

<https://eax.me/crystal-measurements/>
<https://eax.me/crystal-filters-part-4/>

Sheet: /IF-9Mhz/
File: if-9mhz.sch

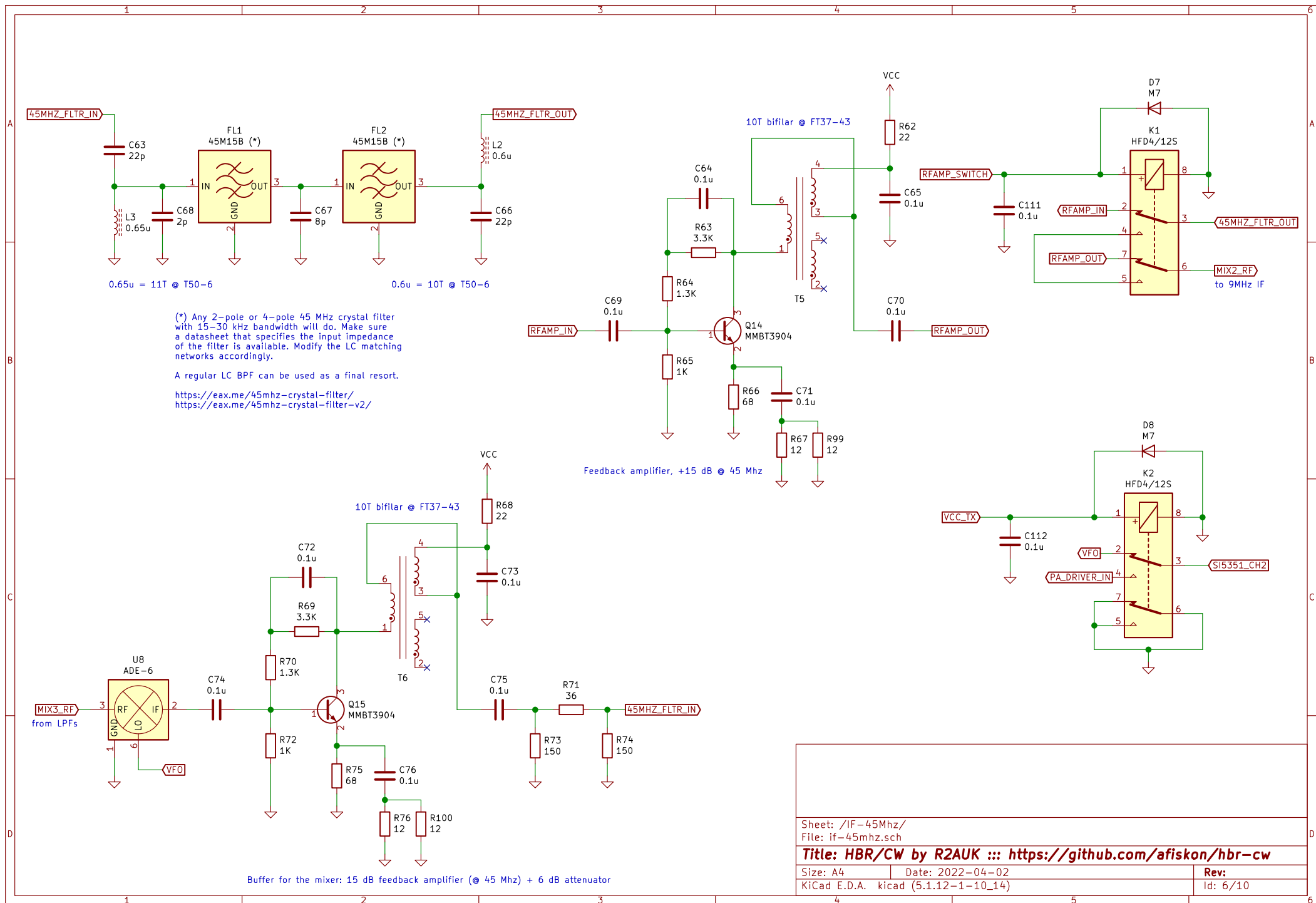
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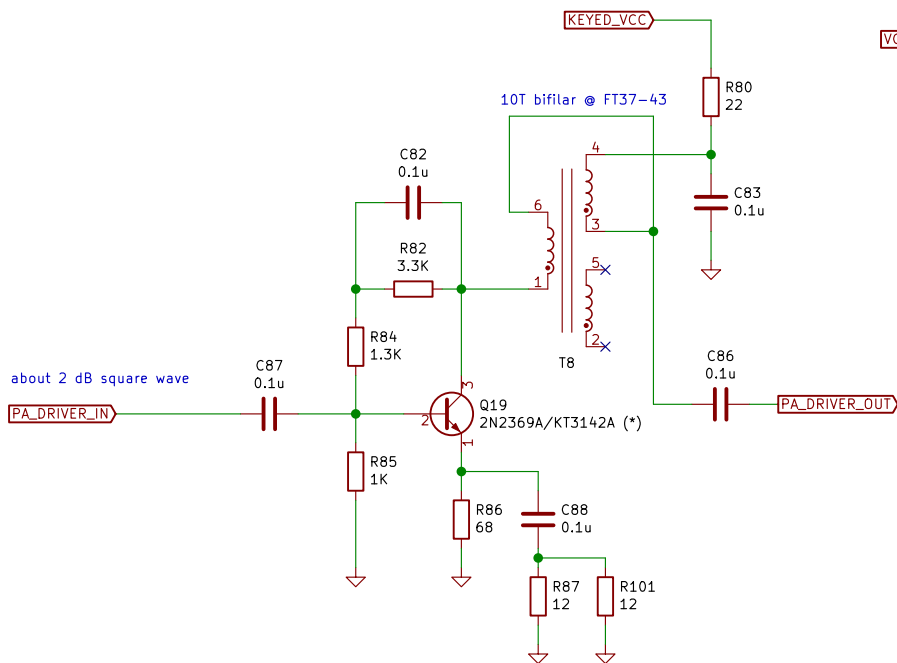
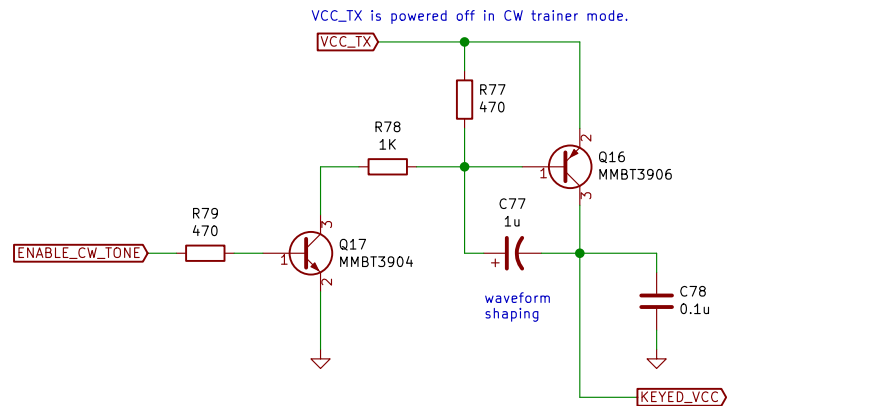
Size: A4 Date: 2022-04-02

KiCad E.D.A. kicad (5.1.12-1-10_14)

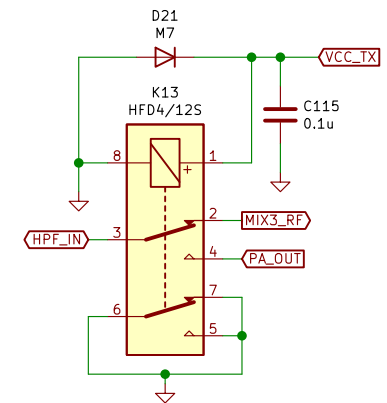
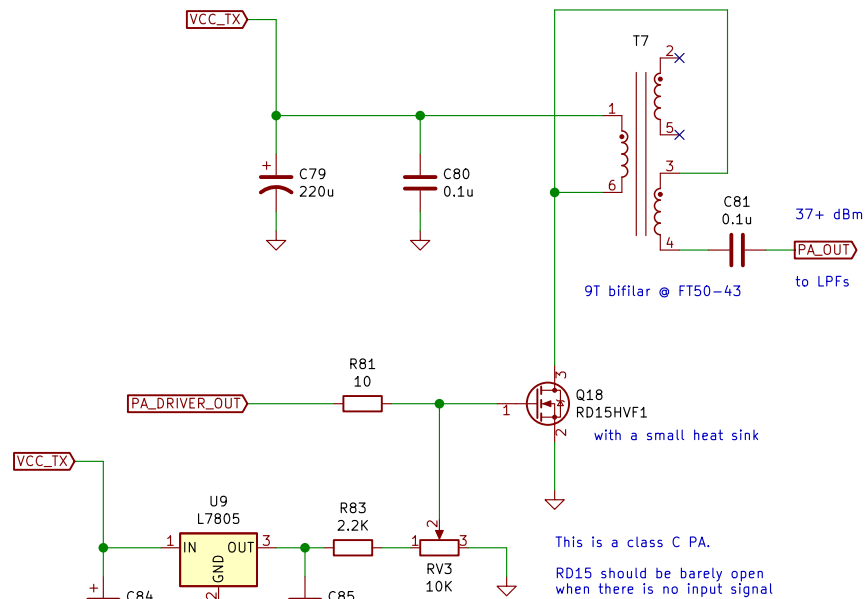
Rev:

Id: 5/10





(*) You need something similar to 2N3904 but with higher f_T to get equal power across all HF bands. 2N2369A / KT3142A have $f_T = 500$ Mhz.



Sheet: /PA/
File: pa.sch

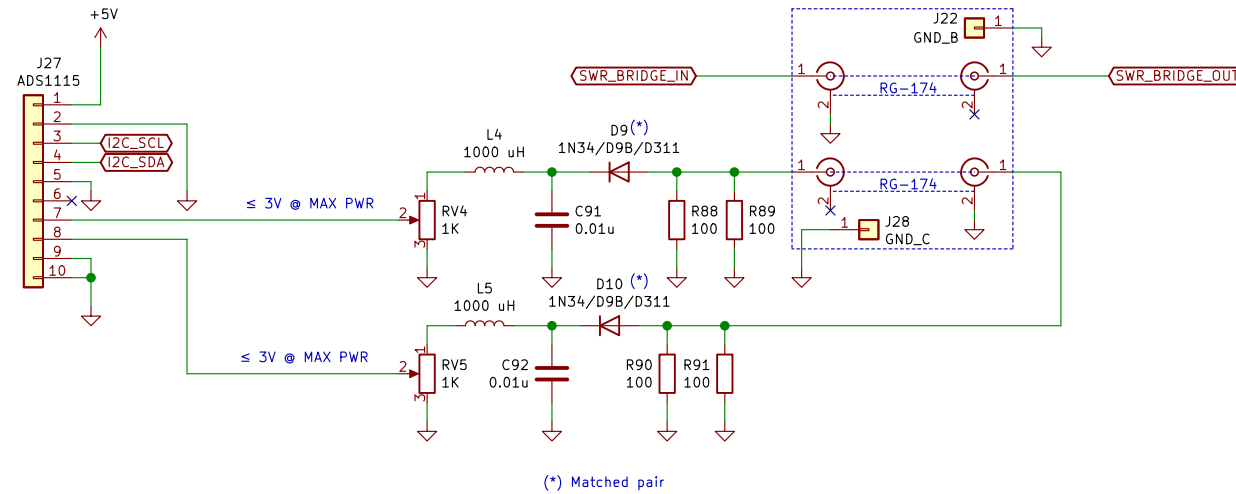
Title: HBR/CW by R2AUK ::: <https://github.com/afiskon/hbr-cw>

Size: A4 Date: 2022-04-02

KiCad E.D.A. kicad (5.1.12-1-10_14)

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Tandem match / Stockton bridge @ BN61-202
 Primary windings: RG-174 coax cable
 Secondary windings: 6T enameled copper wire
 SECONDARY WINDINGS ARE NOT SHOWN ON THE SCHEMATIC.
 For more details see <https://eax.me/stockton-bridge/>



Sheet: /SWR Meter/
 File: swr-meter.sch

Title: HBR/CW by R2AUK ::: <https://github.com/afiskon/hbr-cw>

Size: A4 Date: 2022-04-02

KiCad E.D.A. kicad (5.1.12-1-10_14)

Rev:
 Id: 8/10

