

Sheet: /AF Amplifier/  
File: af-amplifier.sch

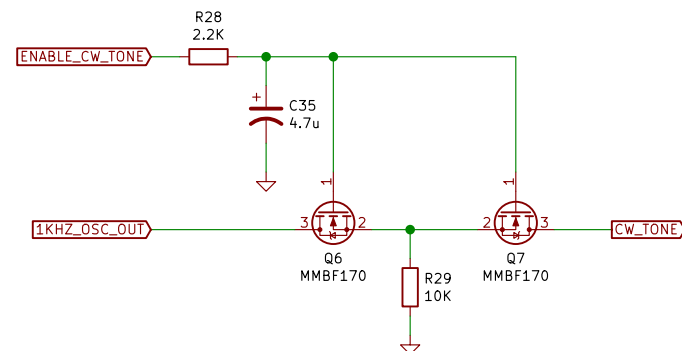
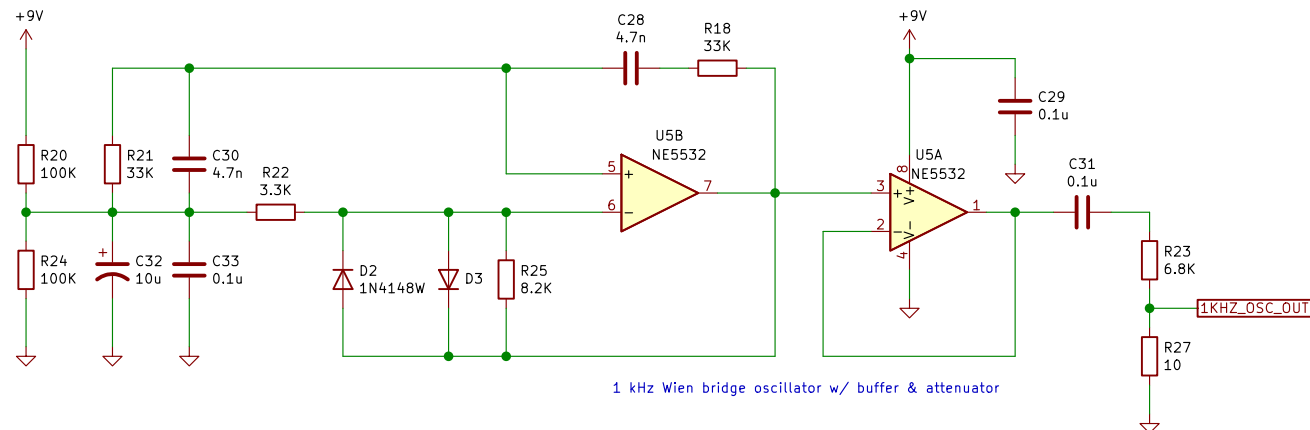
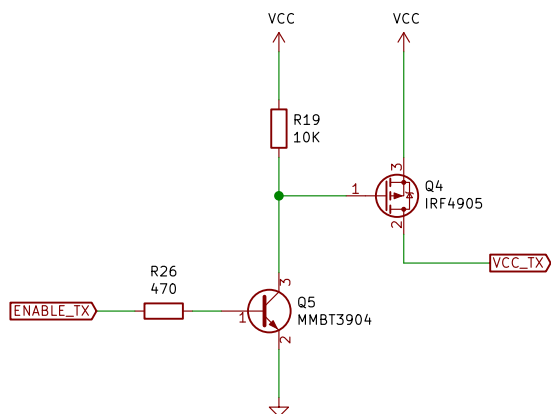
Title: HBR/CW by R2AUK ::: <https://eax.me/hbr-cw-pcb/>

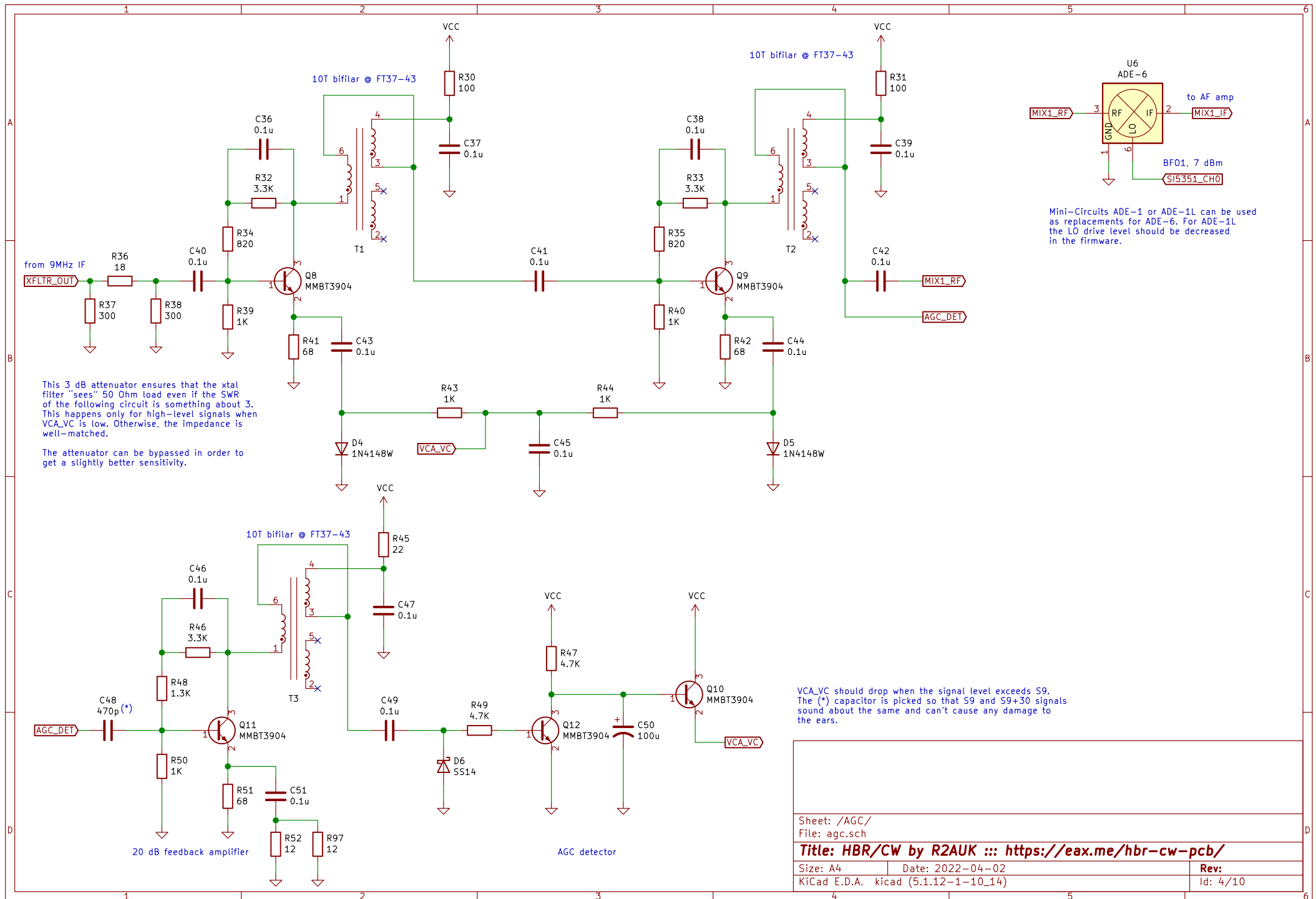
Size: A4 Date: 2022-04-02

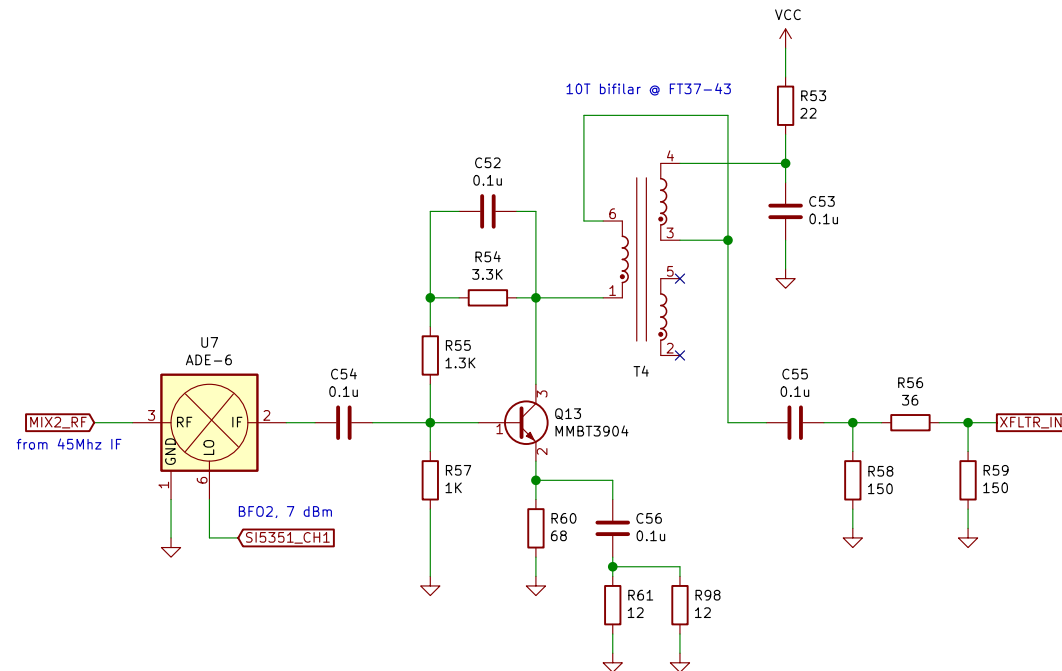
KiCad E.D.A. kicad (5.1.12-1-10\_14)

Rev:

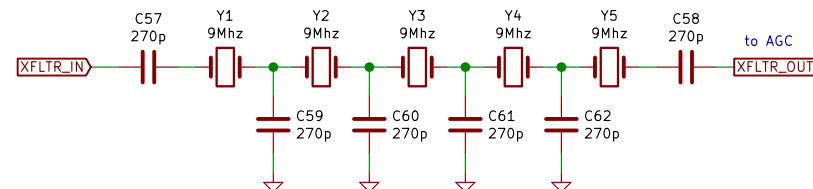
Id: 2/10







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.

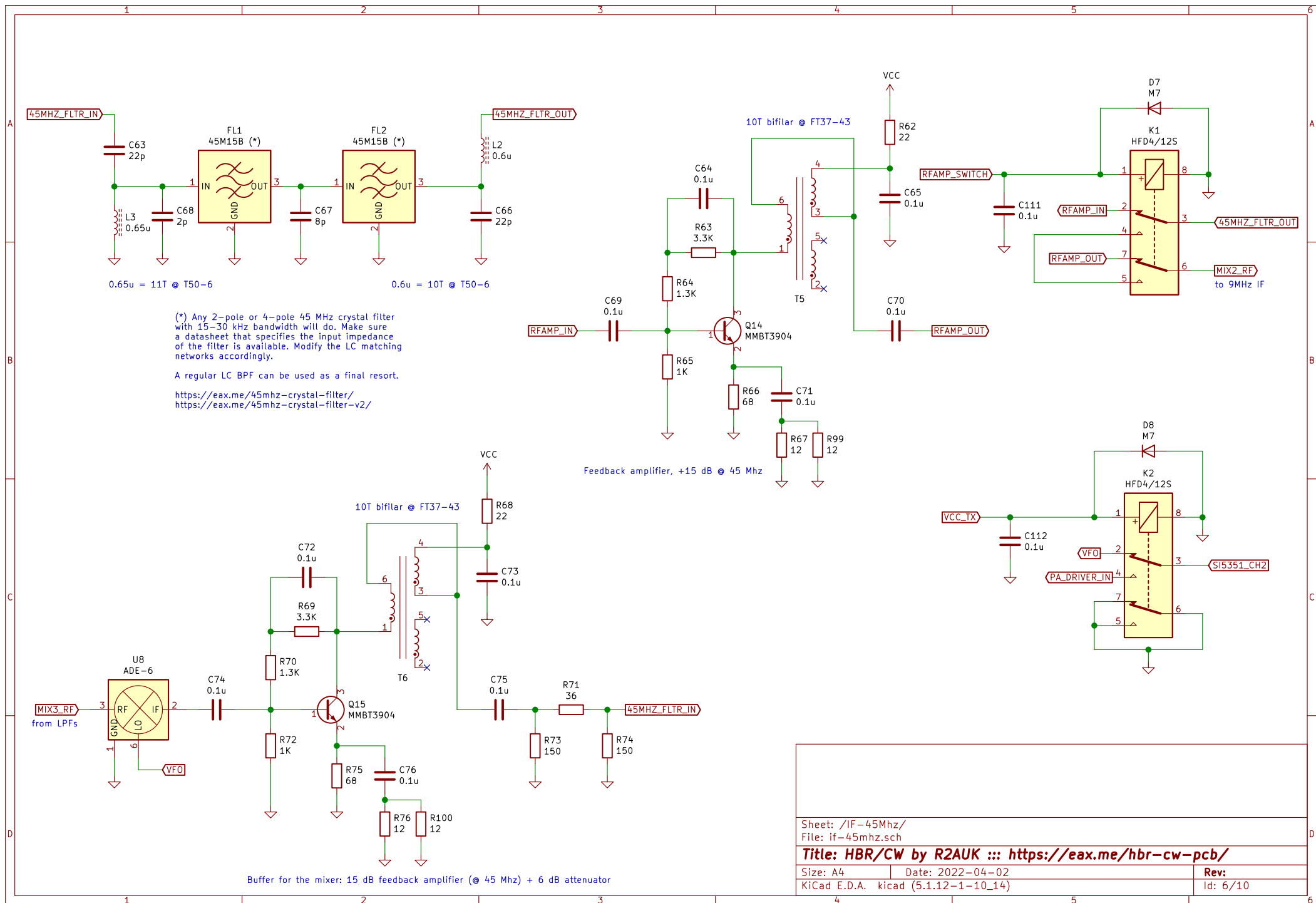
<https://eax.me/crystal-measurements/>  
<https://eax.me/crystal-filters-part-4/>

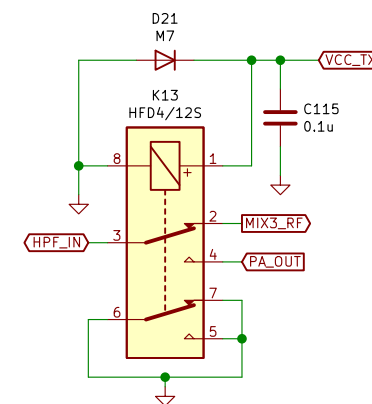
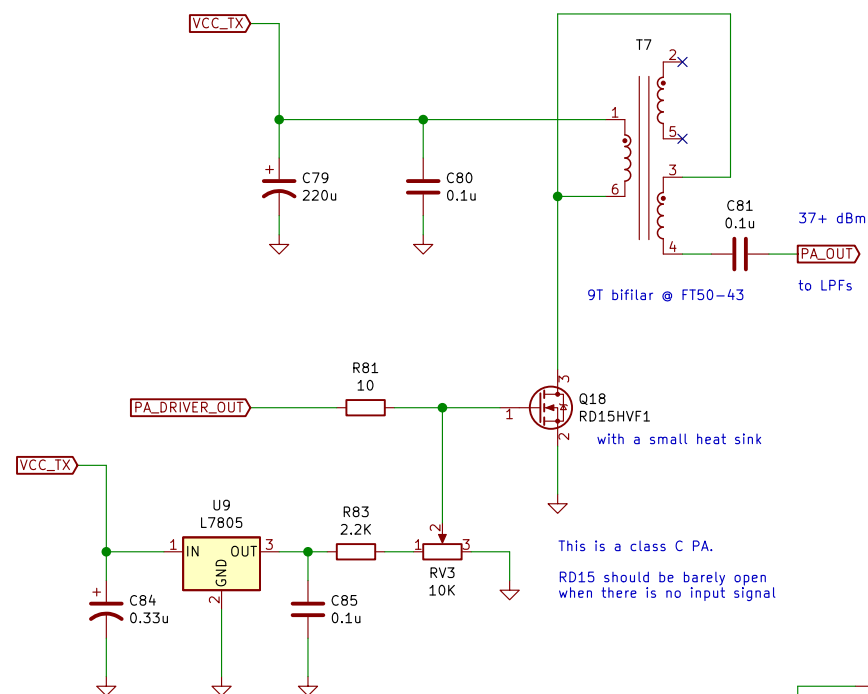
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File: if-9mhz.sch

**Title: HBR/CW by R2AUK ::: <https://eax.me/hbr-cw-pcb/>**

Size: A4 Date: 2022-04-02  
KiCad E.D.A. kicad (5.1.12-1-10\_14)

Rev:  
Id: 5/10



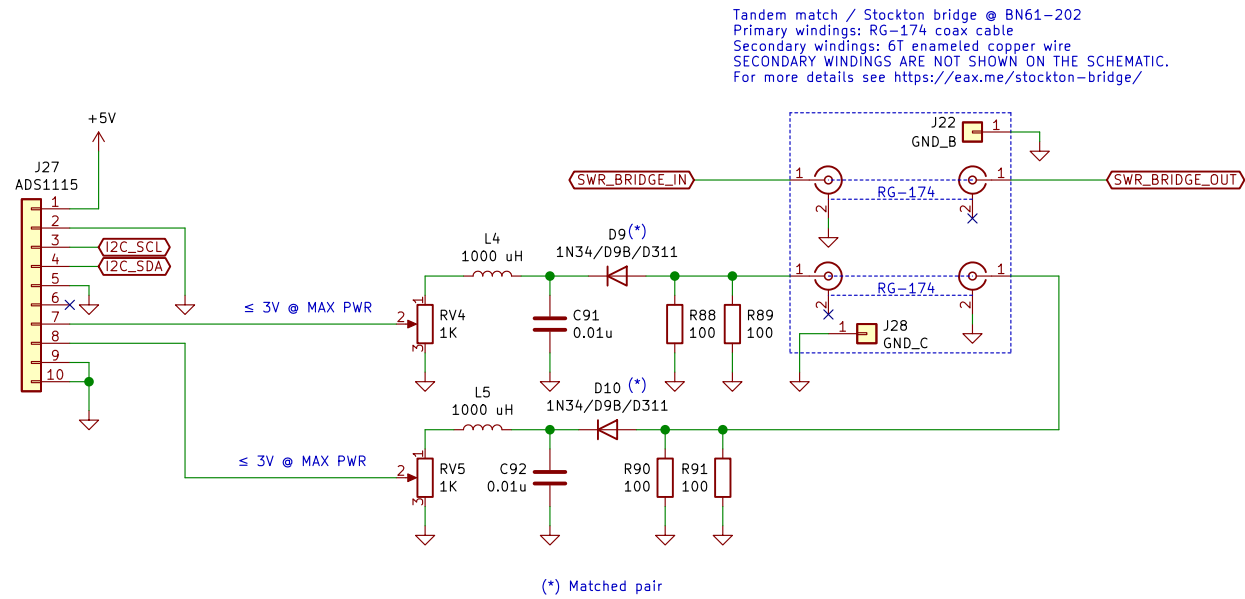


Sheet: /PA/  
File: pa.sch

Title: HBR/CW by R2AUK :: <https://eax.me/hbr-cw-pcb/>

Size: A4	Date: 2022-04-02
KiCad E.D.A. kicad (5.1.12-1-10_14)	

Rev:  
Id: 7/10



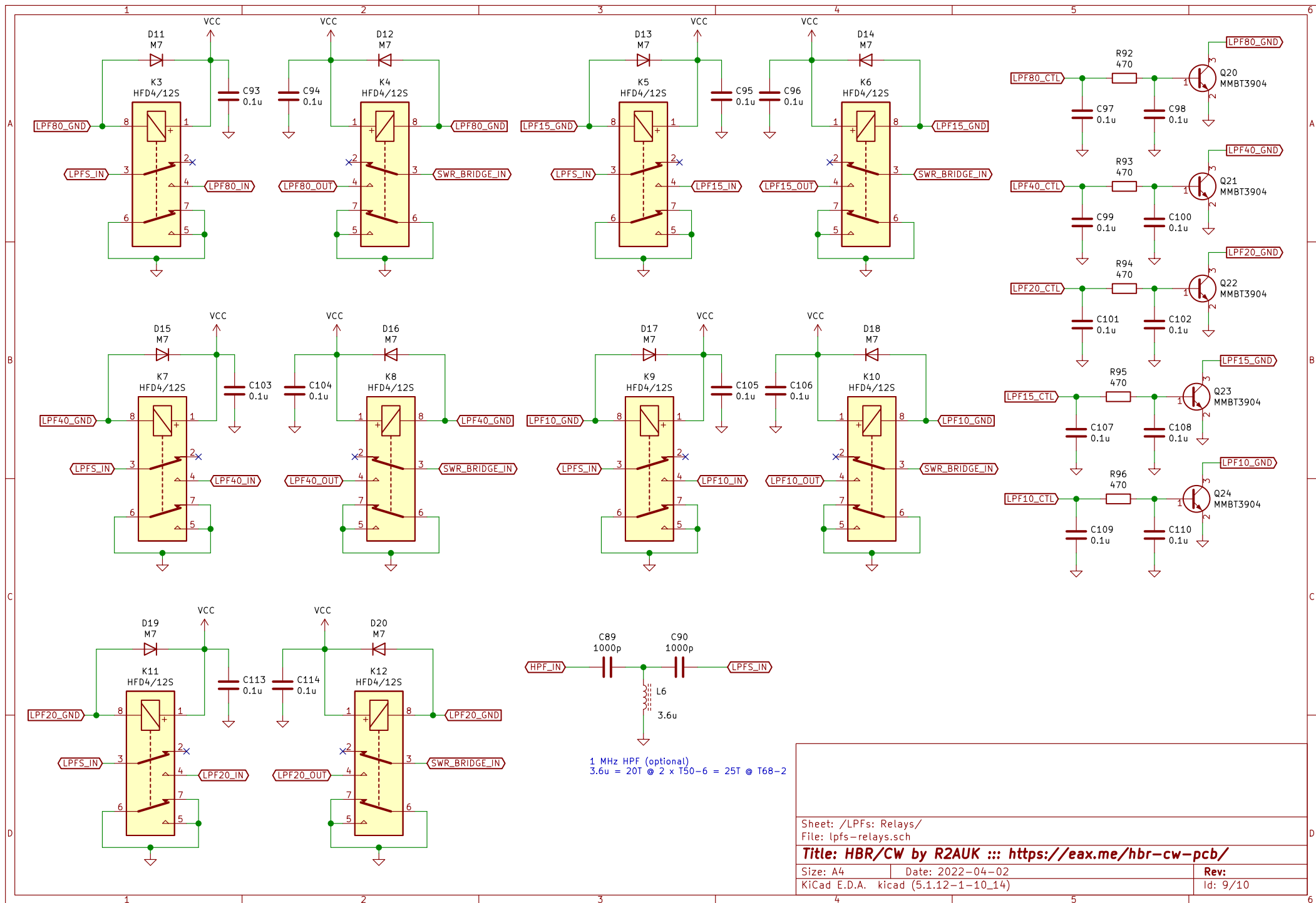
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**Title: HBR/CW by R2AUK ::: <https://eax.me/hbr-cw-pcb/>**

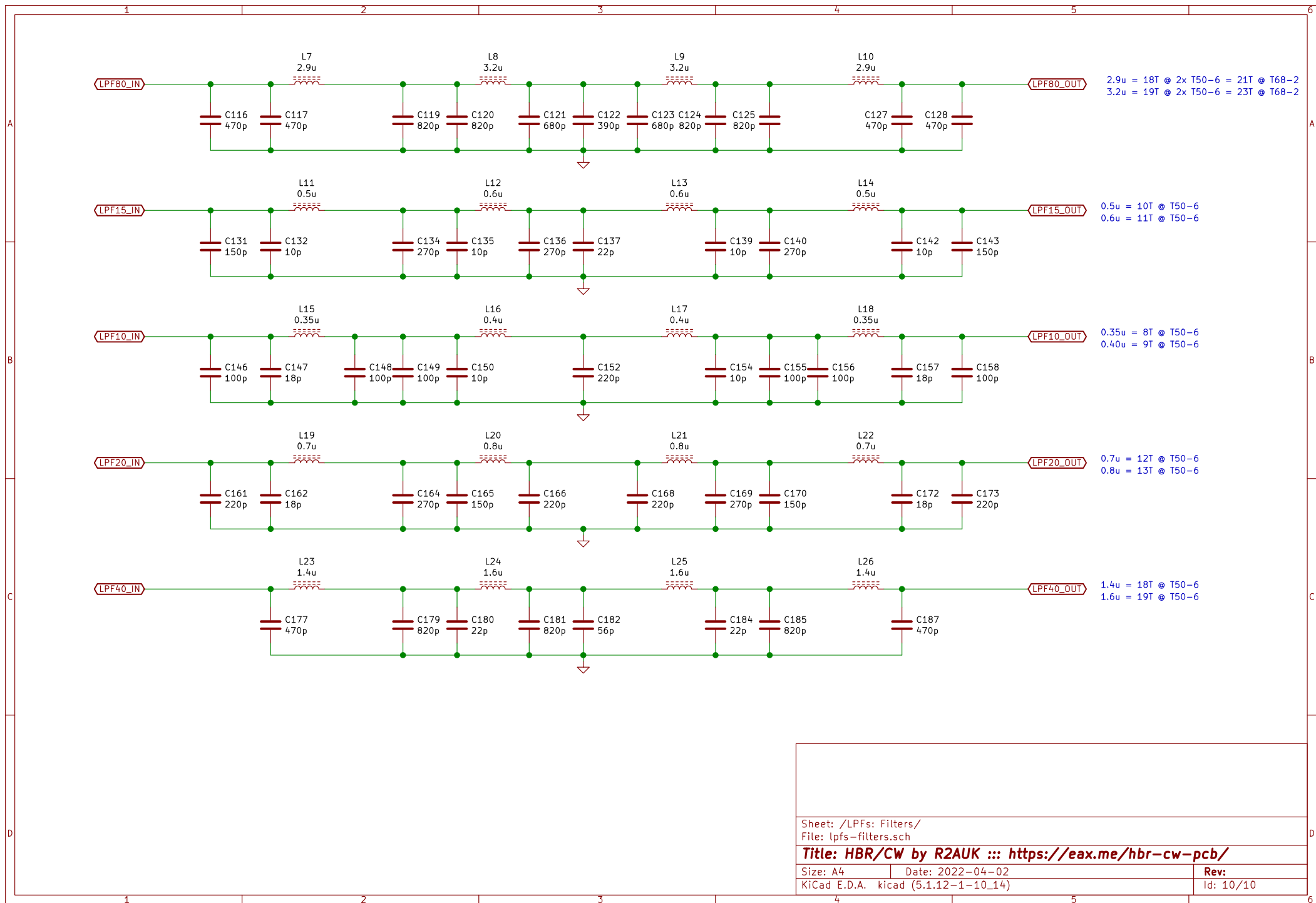
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 KiCad E.D.A. kicad (5.1.12-1-10\_14)

Rev:  
 Id: 8/10





Sheet: /LPFs: Relays/ File: lpfs-relays.sch	
<b>Title: HBR/CW by R2AUK ::: <a href="https://eax.me/hbr-cw-pcb/">https://eax.me/hbr-cw-pcb/</a></b>	
Size: A4	Date: 2022-04-02
KiCad E.D.A. kicad (5.1.12-1-10_14)	Rev: Id: 9/10



Sheet: /LPFs: Filters/  
File: lpfs-filters.sch

**Title: HBR/CW by R2AUK ::: <https://eax.me/hbr-cw-pcb/>**

Size: A4 Date: 2022-04-02

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

Rev:

Id: 10/10