

Based on Electric Druid design
<https://electricdruid.net/multimode-filters-part-2-pole-mixing-filters/>
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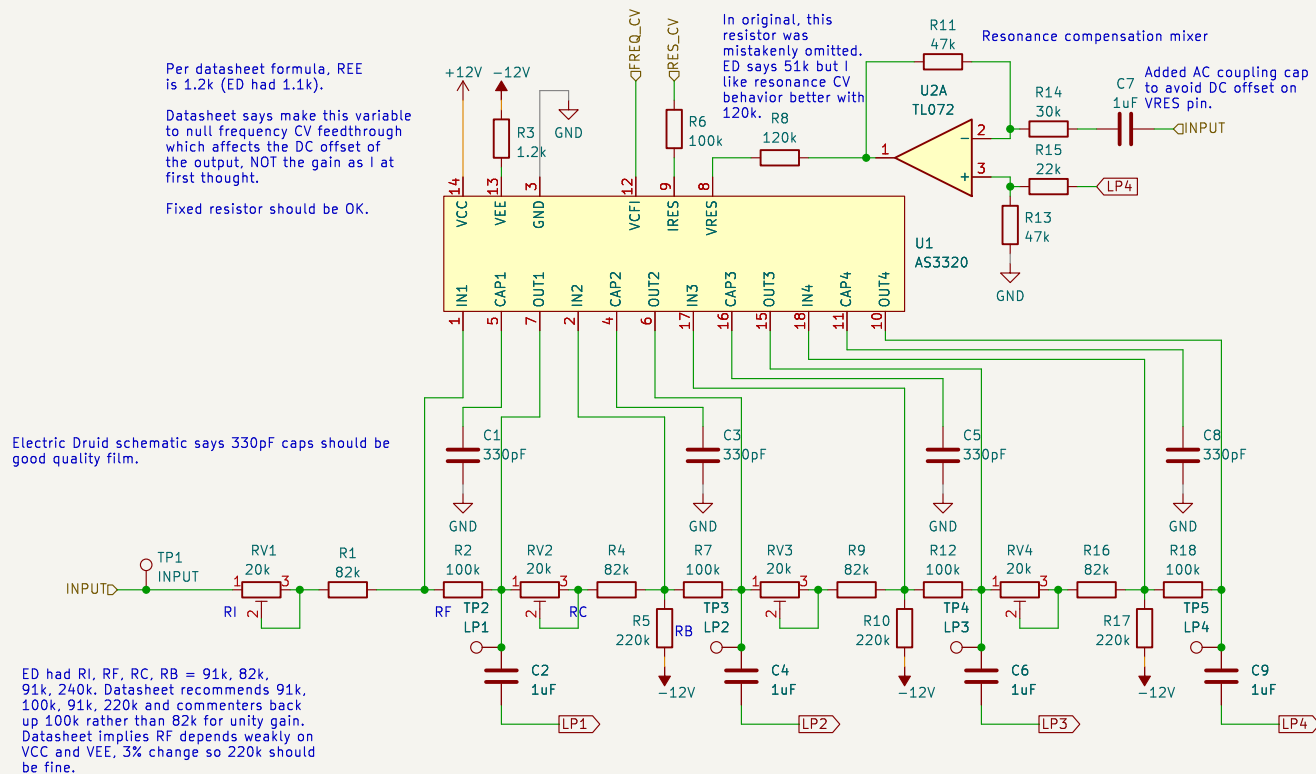
mods by Rich Holmes / Analog Output

Sheet: /
File: pmf.kicad_sch

Title: Pole mixing filter

Size: USLetter Date: 2022-03-29

KiCad E.D.A. kicad-cli 7.0.0-rc1-unknown-7ab651f078-164-ubuntu22.04.1 Rev: 1/4



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Sheet: /Filter core/
 File: core.kicad_sch

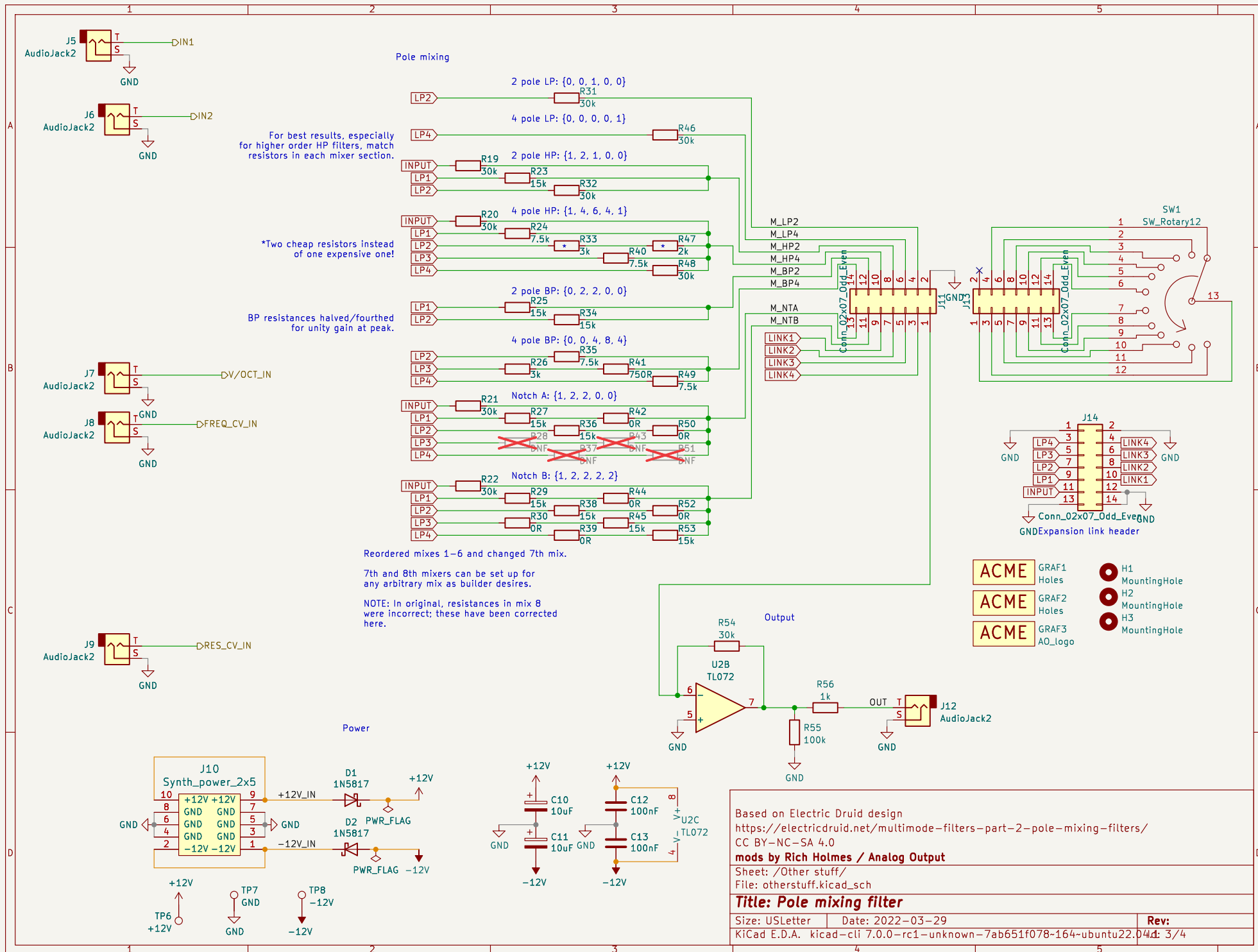
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Signal input

Freq CV input

Res CV input

Added 2nd stage to preserve phase

CV input on 3320 is 18 mV/oct. Range should best be $-25 - +155$ mV (total range 180 mV).

Here 12 V knob range is divided down by $1/52$ to $1/62$, giving 231 to 194 mV.

ED design seems to assume positive CV since it has only negative offset capability. I changed this.

± 5 V would divide down to ± 96 to 81 mV. 0 - 10 V becomes 0 - 192 to 161 mV.

H4 MountingHole
H5 MountingHole
H6 MountingHole

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Sheet: /Pots board/
File: pots.kicad_sch

Title: Pole mixing filter

Size: USLetter Date: 2022-03-29

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Rev:

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