

Author: Jordan Aceto
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Sheet: /
File: four_pole_lpf.sch

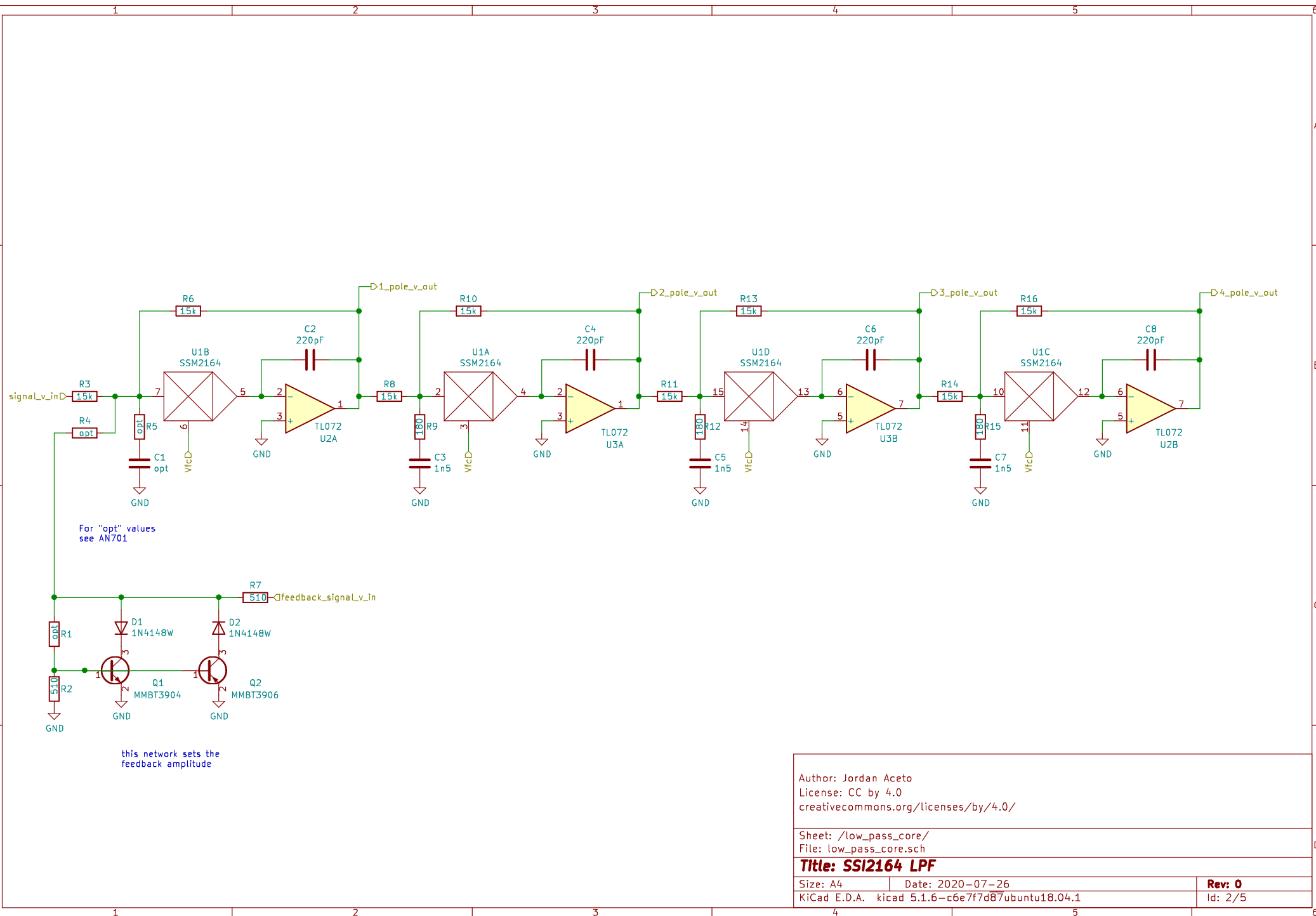
Title: SS12164 LPF

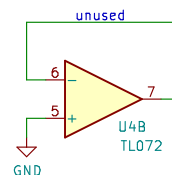
Size: A4
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Date: 2020-07-26

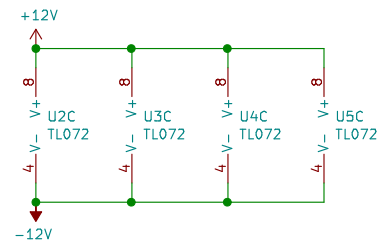
Rev: 0

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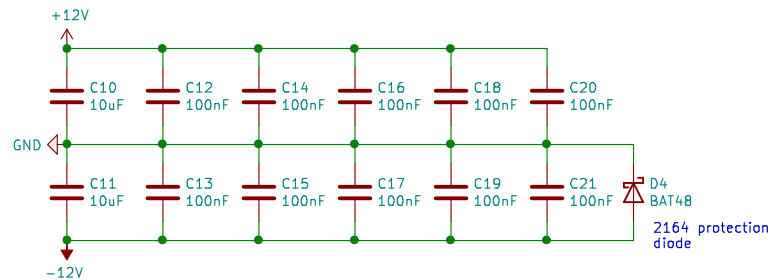


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U1E
SSM2164
V+ 16 → +12V
gnd 8 → GND
V- 9 → -12V
mode 1 opt → +12V
R20

optional class A/AB resistor
leave open for class AB



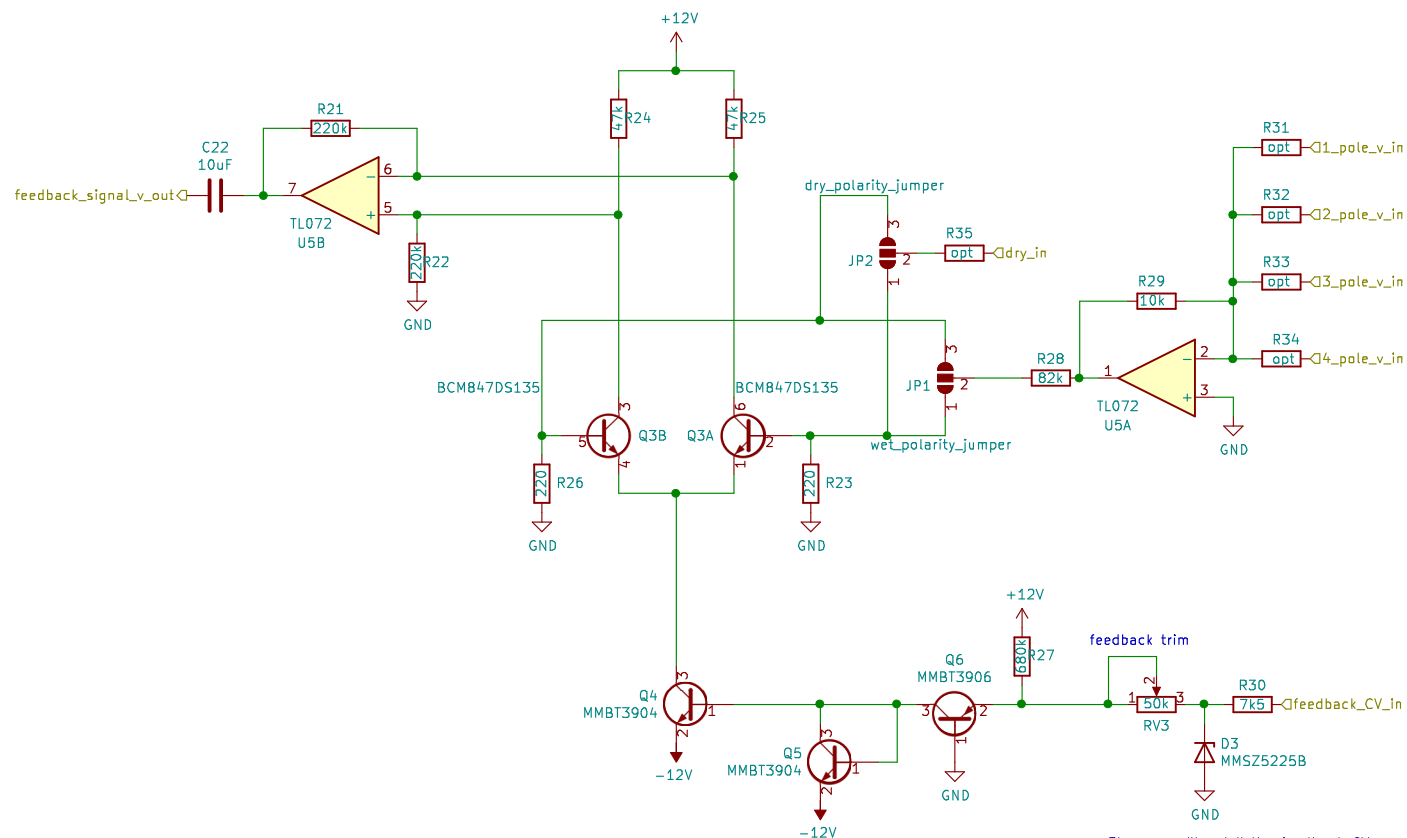
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Sheet: /power_supply/
File: power_supply.sch

Title: SSI2164 LPF

Size: A4 Date: 2020-07-26
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The weighted sum of the lpf coefficients accomplishes "Q-compensation" which makes it so that increasing feedback does not result in passband attenuation.

See AN701 for two different setups: 4th order bandpass feedback, or 2nd order bandpass feedback.

Note that the feedback signal polarity must also be set appropriately for the feedback mode you are using. This is accomplished with a jumper.

The zener "bends" the feedback CV to approximate a log response.

Do not fit if this is not desired.

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Sheet: /feedback_VCA/
File: feedback_VCA.sch

Title: SSI2164 LPF

Size: A4 Date: 2020-07-26
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