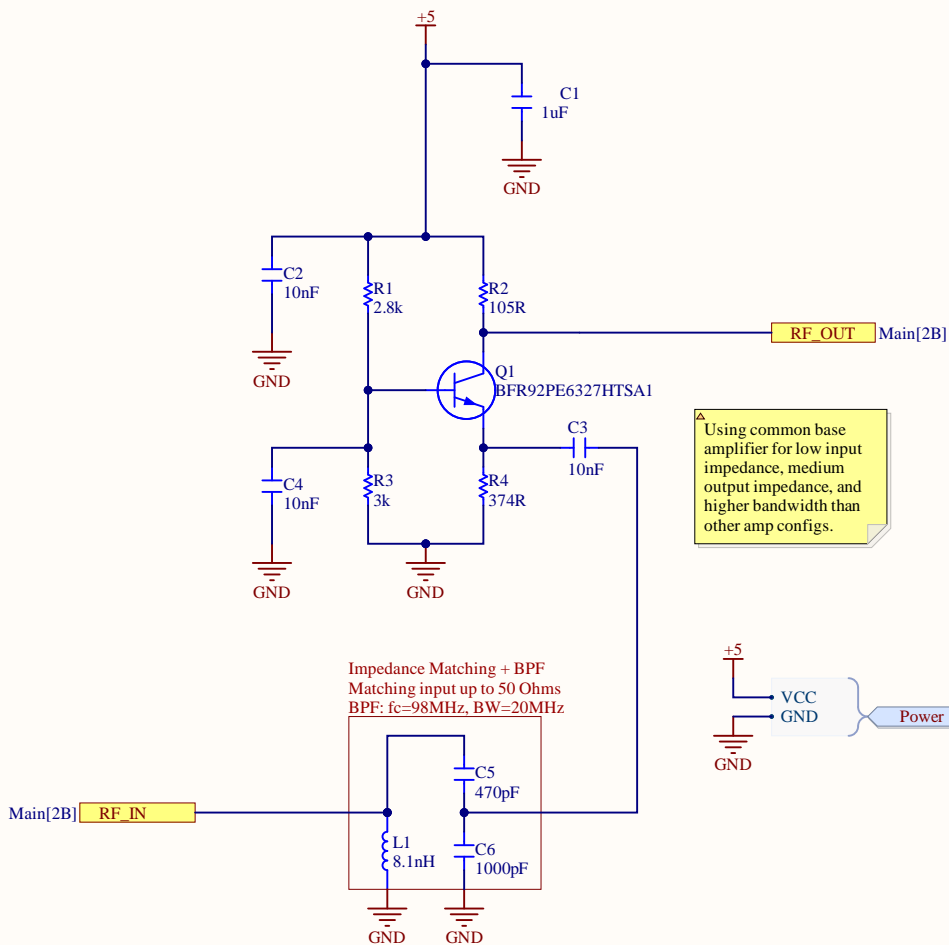
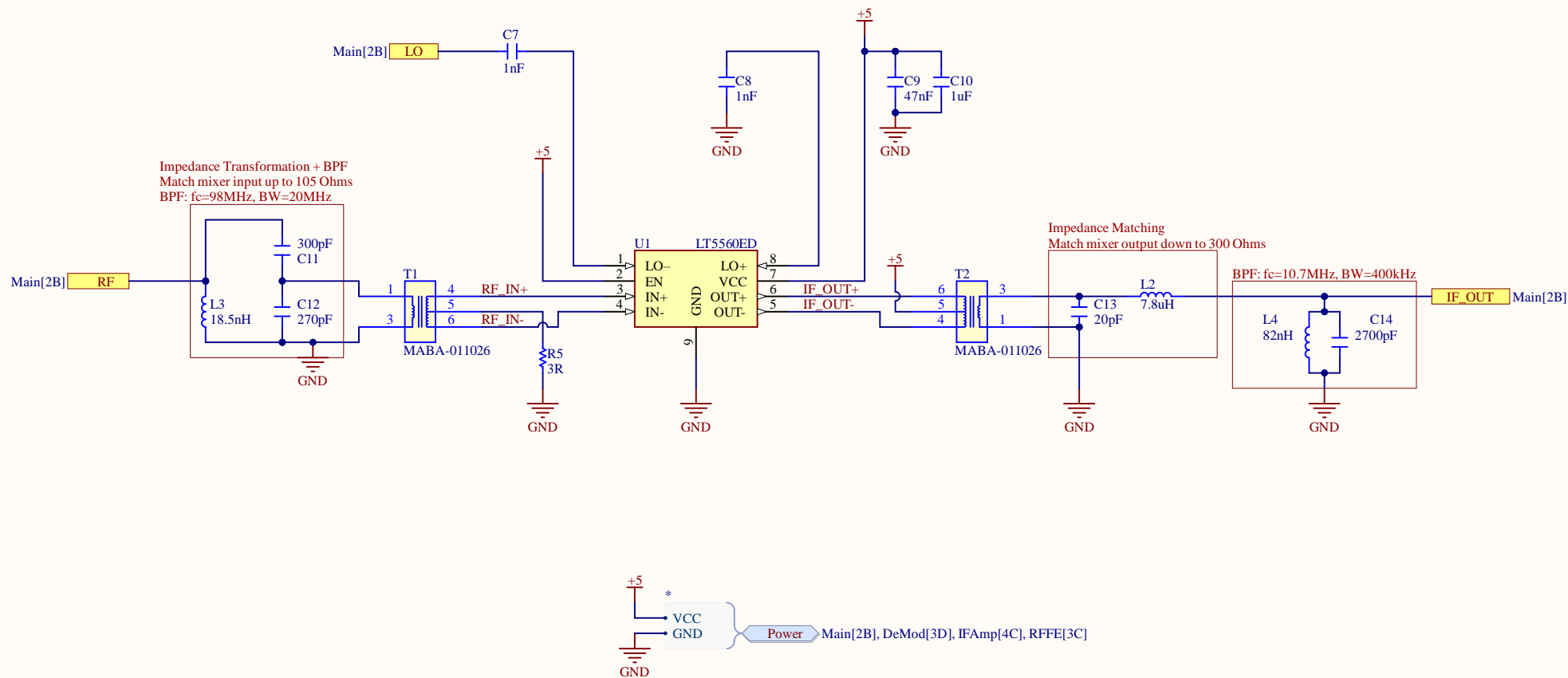


<sup>A</sup> This FM receiver build is based on the design from this video series:  
[https://www.youtube.com/watch?v=r\\_p7AHsSOdw&list=PL9Ox3wpnB0kqekAy z6blg4YdvoEMoJNJY&index=1](https://www.youtube.com/watch?v=r_p7AHsSOdw&list=PL9Ox3wpnB0kqekAy z6blg4YdvoEMoJNJY&index=1)

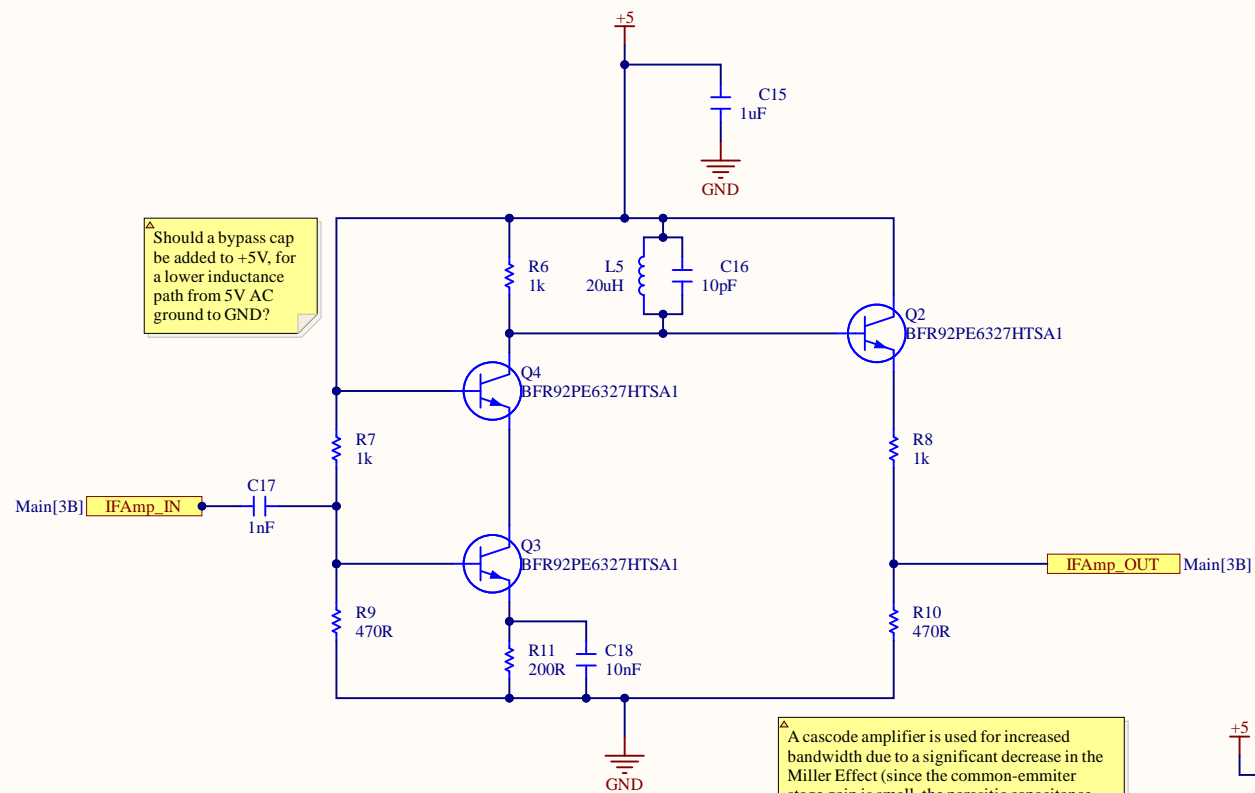
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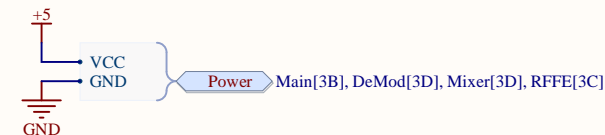


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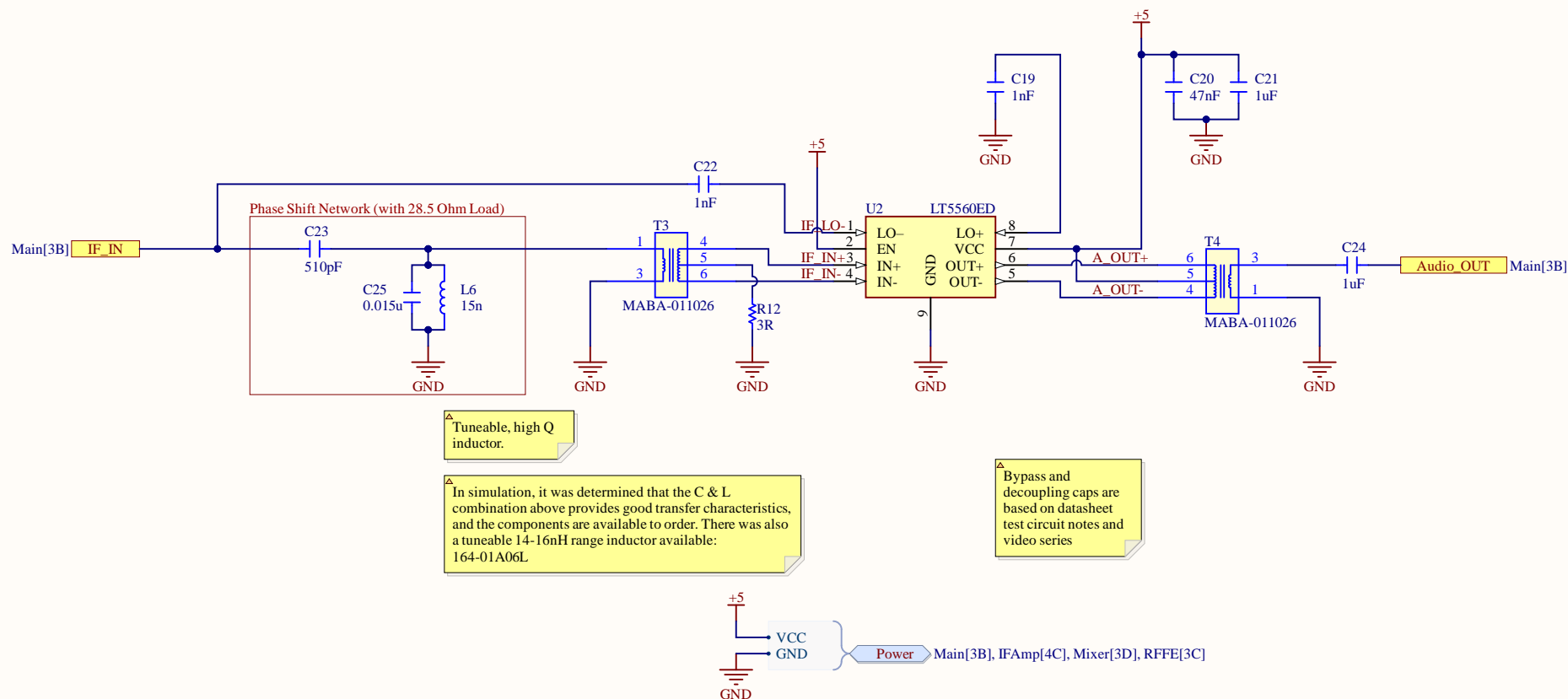


Should a bypass cap be added to +5V, for a lower inductance path from 5V AC ground to GND?

A cascode amplifier is used for increased bandwidth due to a significant decrease in the Miller Effect (since the common-emitter stage gain is small, the parasitic capacitance seen on the collector node of Q3 is small + the common-base stage input resistance is low, leading to a small RC time constant). There's also a source follower to make the output resistance very low, allowing for more freedom in the choice of resistance at the output without decreasing gain. i.e. increasing/decreasing output filter Q if needed.



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