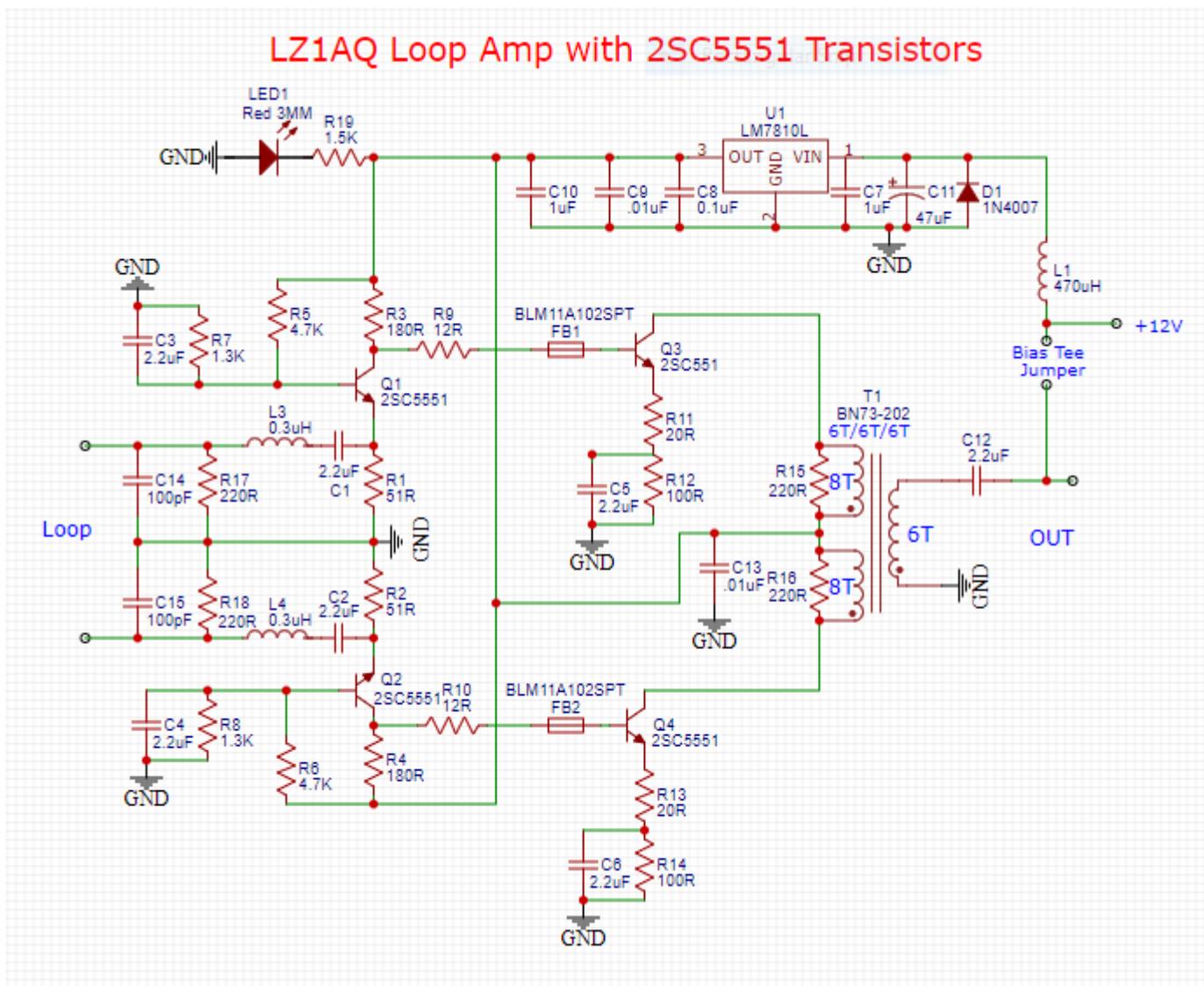


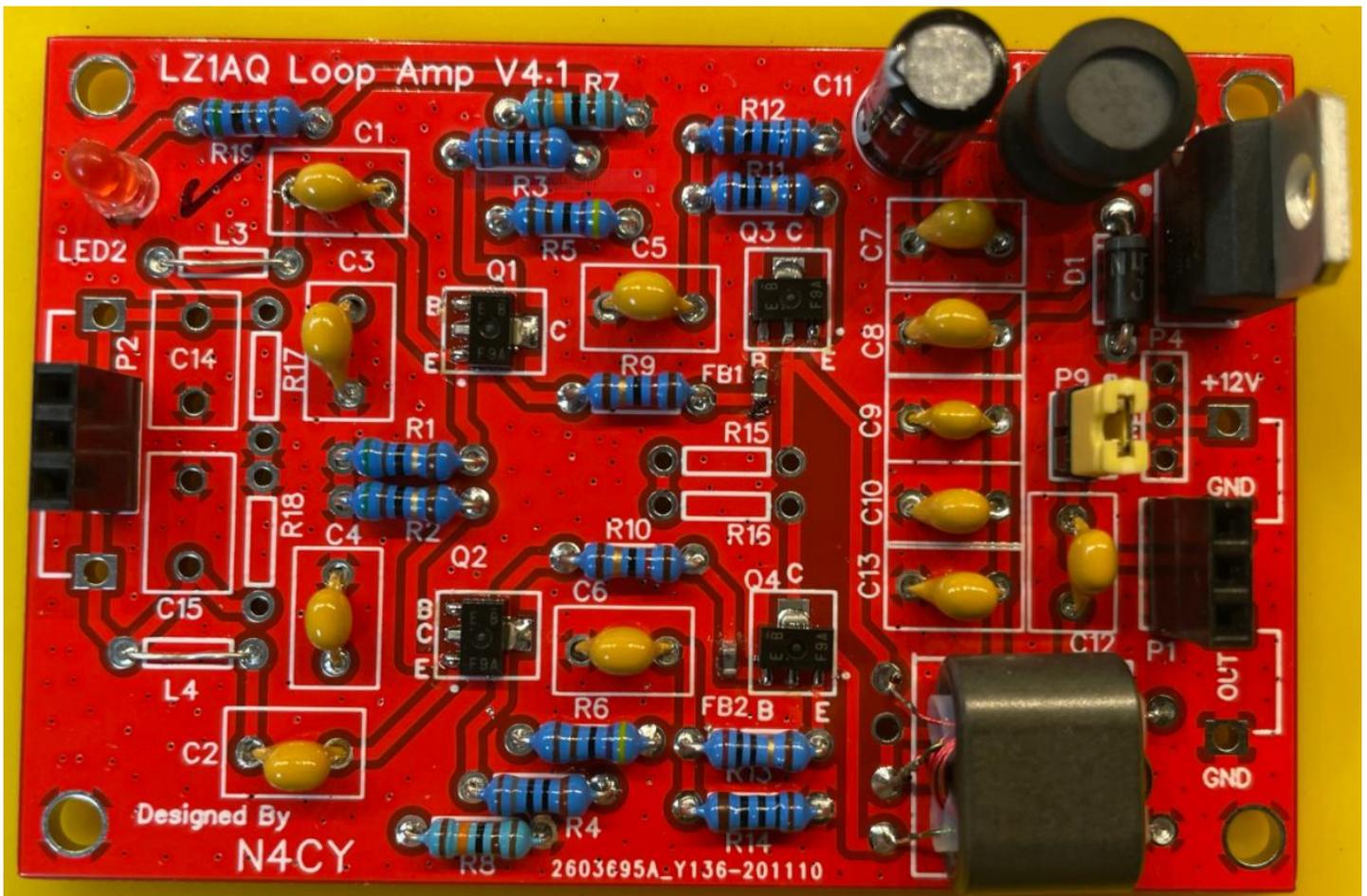
2SC5551 LZ1AQ Loop Amplifier

This loop amplifier is designed for 50Ω and power can be fed directly to the amplifier or through the coax by placing the Yellow jumper cap where it is marked on the board. The amplifier comes with a Bias Tee Power Injector board which will allow you to feed power through the coax. The Loop Amplifier is built on a high quality circuit board with a ground plane on both sides of the board and is very compact at 2" X 2 7/8". The power injector board is 2 1/4" X 1". The FM filter is not installed, but there are slots on the board to install the parts if needed, but there would be very few situations where it would be needed. The amplifier runs at 140mA at 12VDC (NOTE) The gains listed below could be ±1dB from amplifier to amplifier.

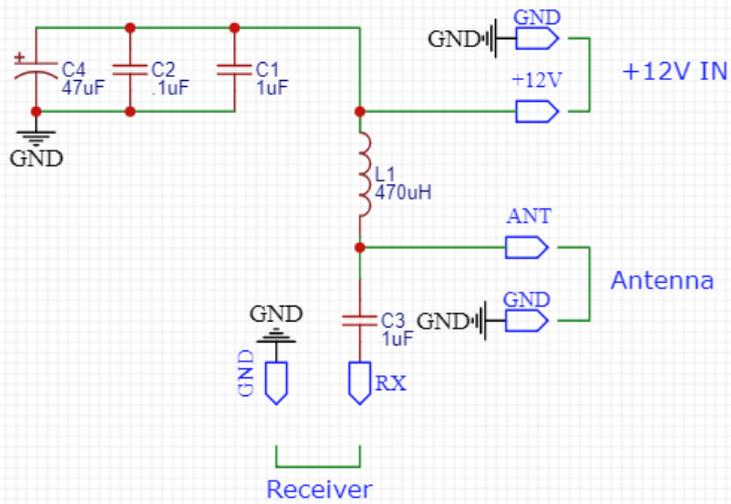
This amplifier has more gain, lower noise and more sensitivity on LW than the original design using 2N2222 transistors.

I have started leaving R15 and R16 off of the boards, as it increases the gain by 3 to 4dB. The resistors are included and you can install them later if you want.





Bias Tee Power Injector



Bias Tee Power Injector

Connections to Receiver



Coax fed to Amplifier



12 to 14V



NOTE) The gains listed below could be ± 1 dB from amplifier to amplifier

