

SDR Receiver - Part 3

Single Band Operation

I published a construction article in the March 2022 publication of Practical Wireless Magazine.

Electronic viewing of the magazine, as part of a subscription, is here: <https://pocketmags.com/eu/practical-wireless-magazine>

As necessitated by space constraints the photos and schematics in the article might be a little small to be of any use for some readers.

So here are each of the photographs and schematics in high resolution.

Samuel

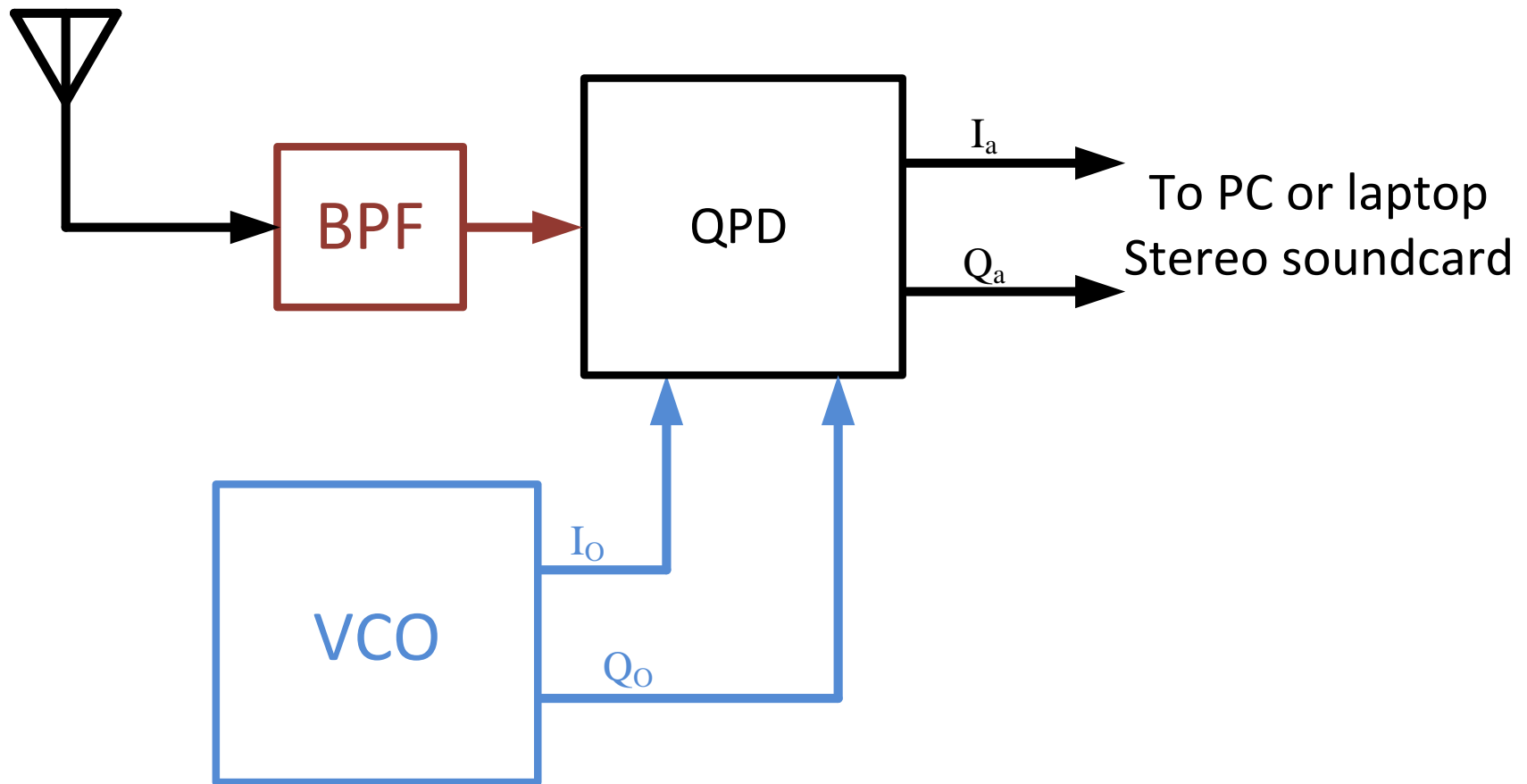


Figure 1. Basic block diagram

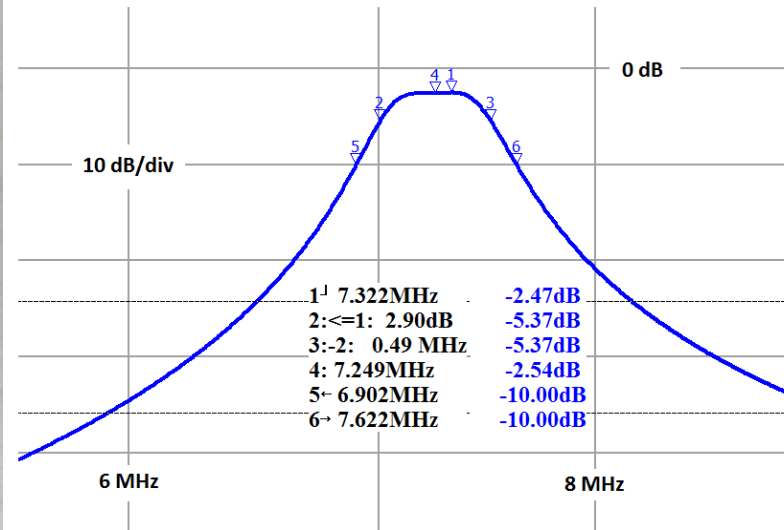
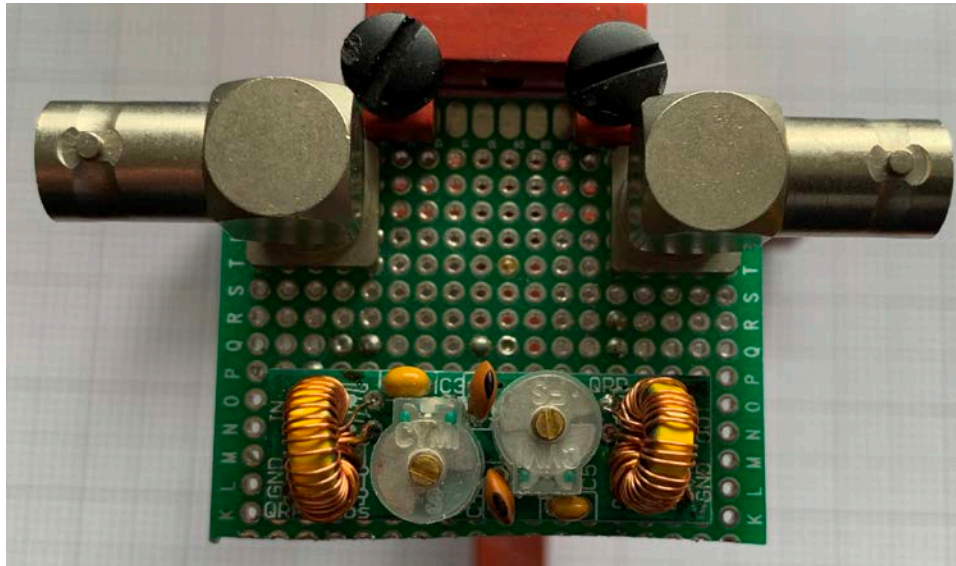


Figure 2. QRP Labs 40m BPF

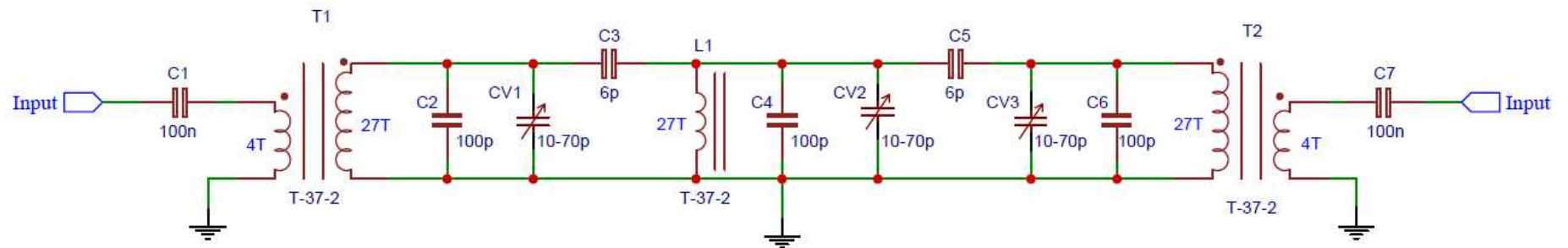


Figure 3. Triple tuned filter schematic

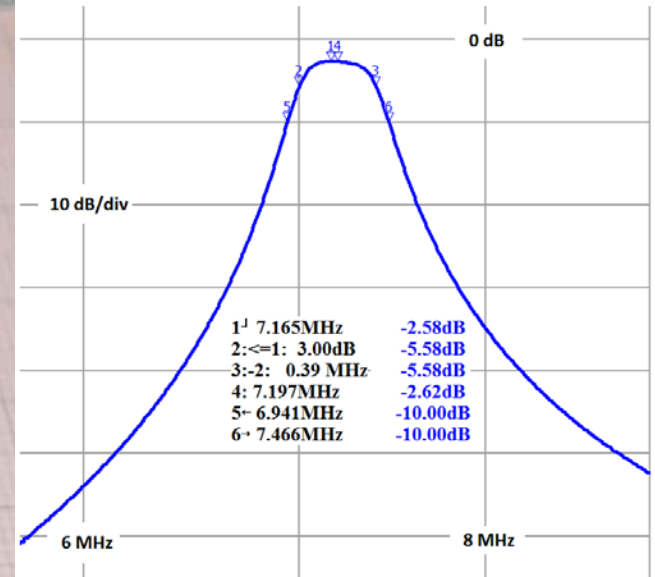
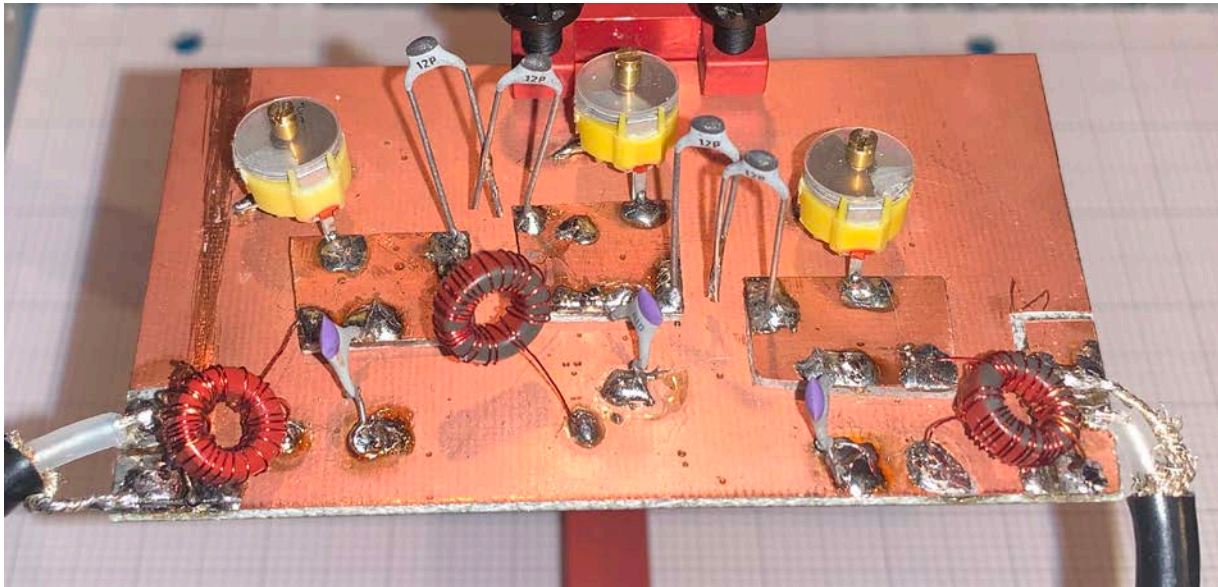


Figure 4. Triple-tuned BPF Prototype

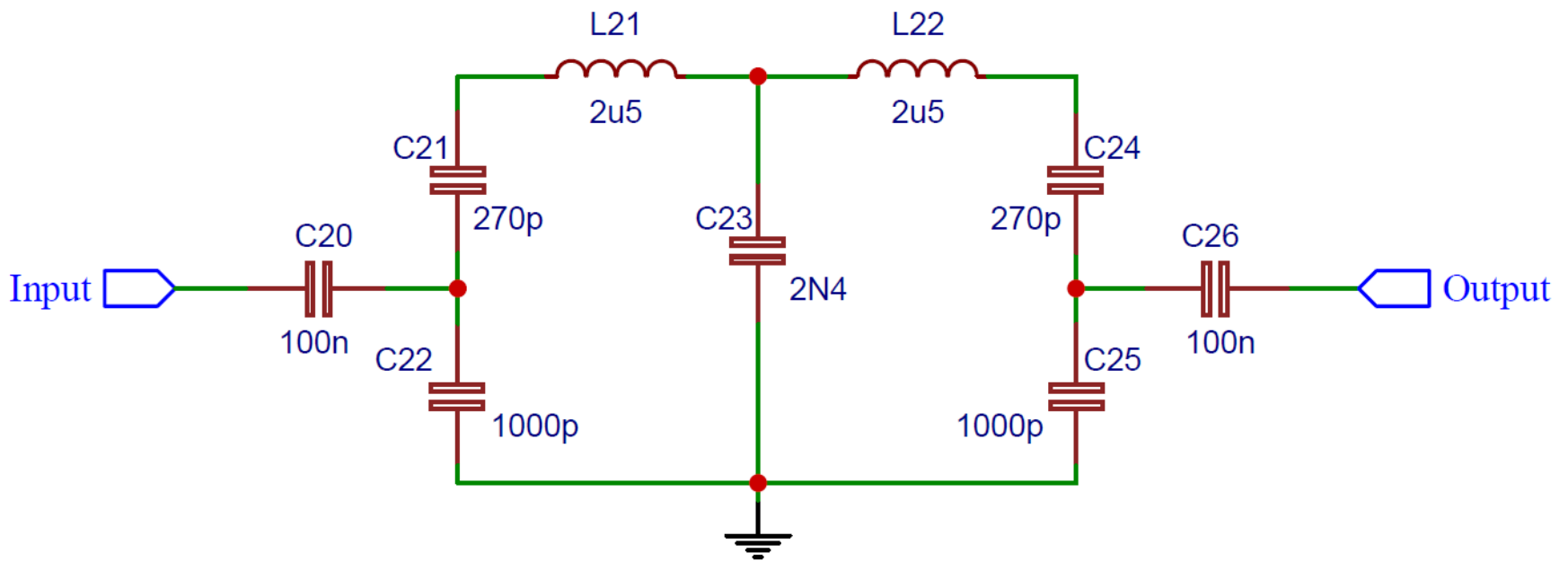


Figure 5. Schematic diagram for the W0IYH BPF

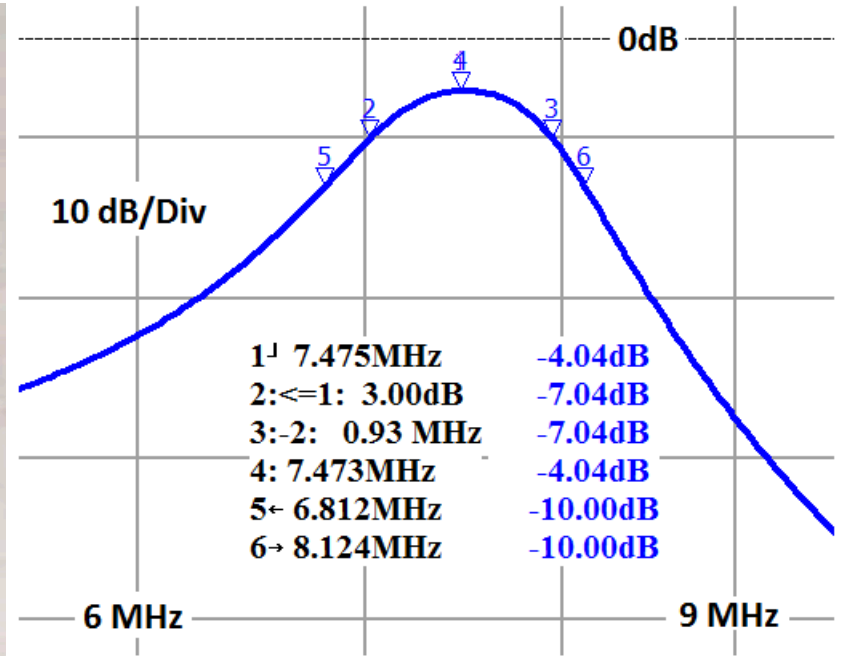
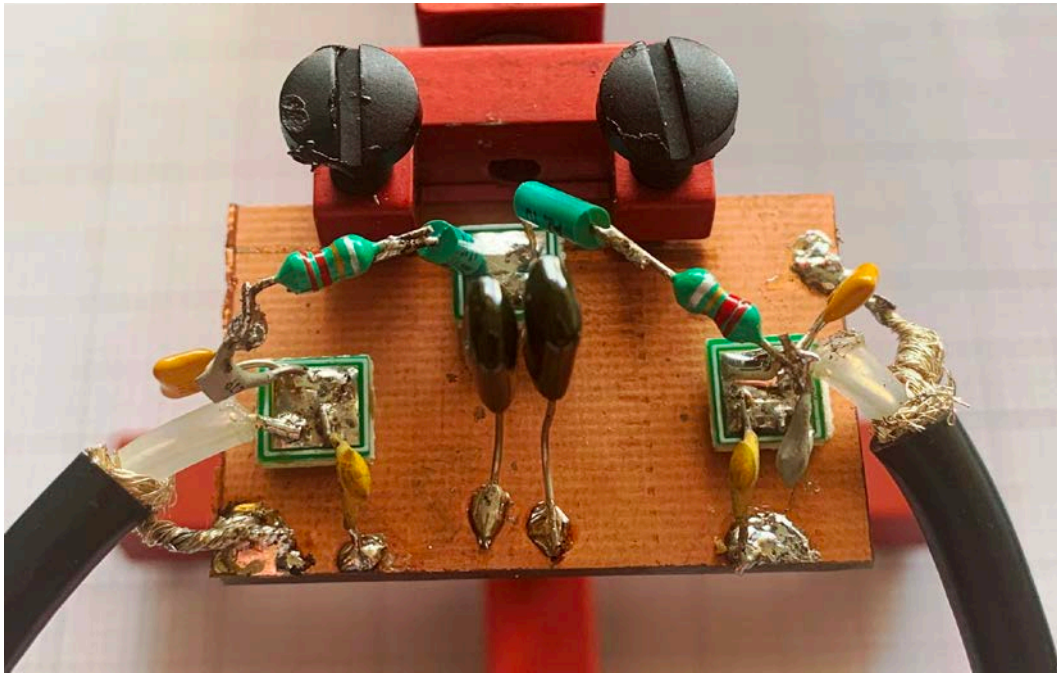


Figure 6. WOIHY 40M BPF Prototype

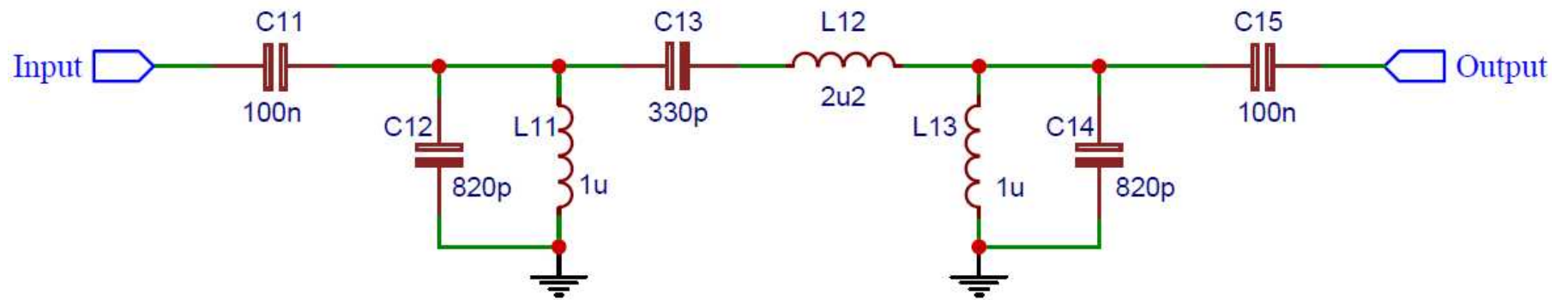


Figure 7. Schematic for the fixed component BPF

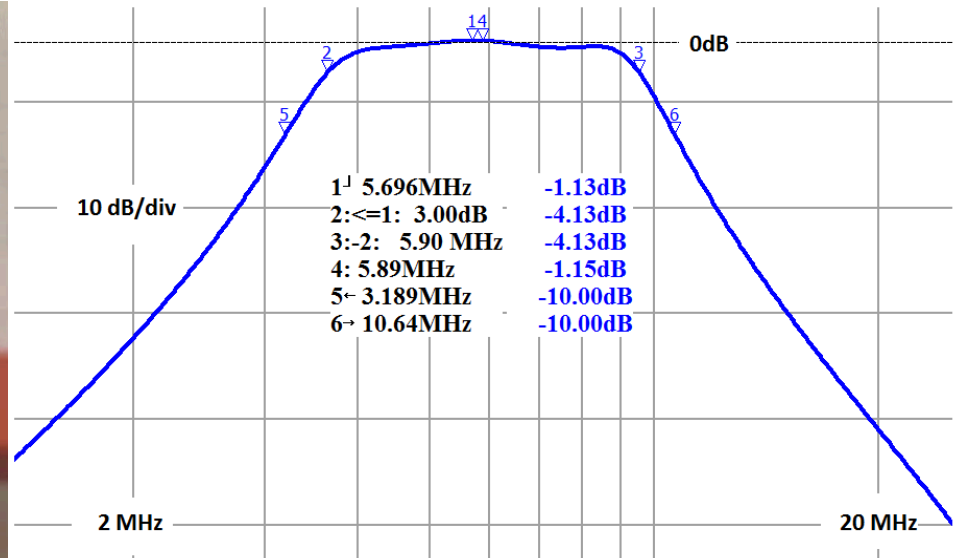


Figure 8. Fixed component BPF Prototype

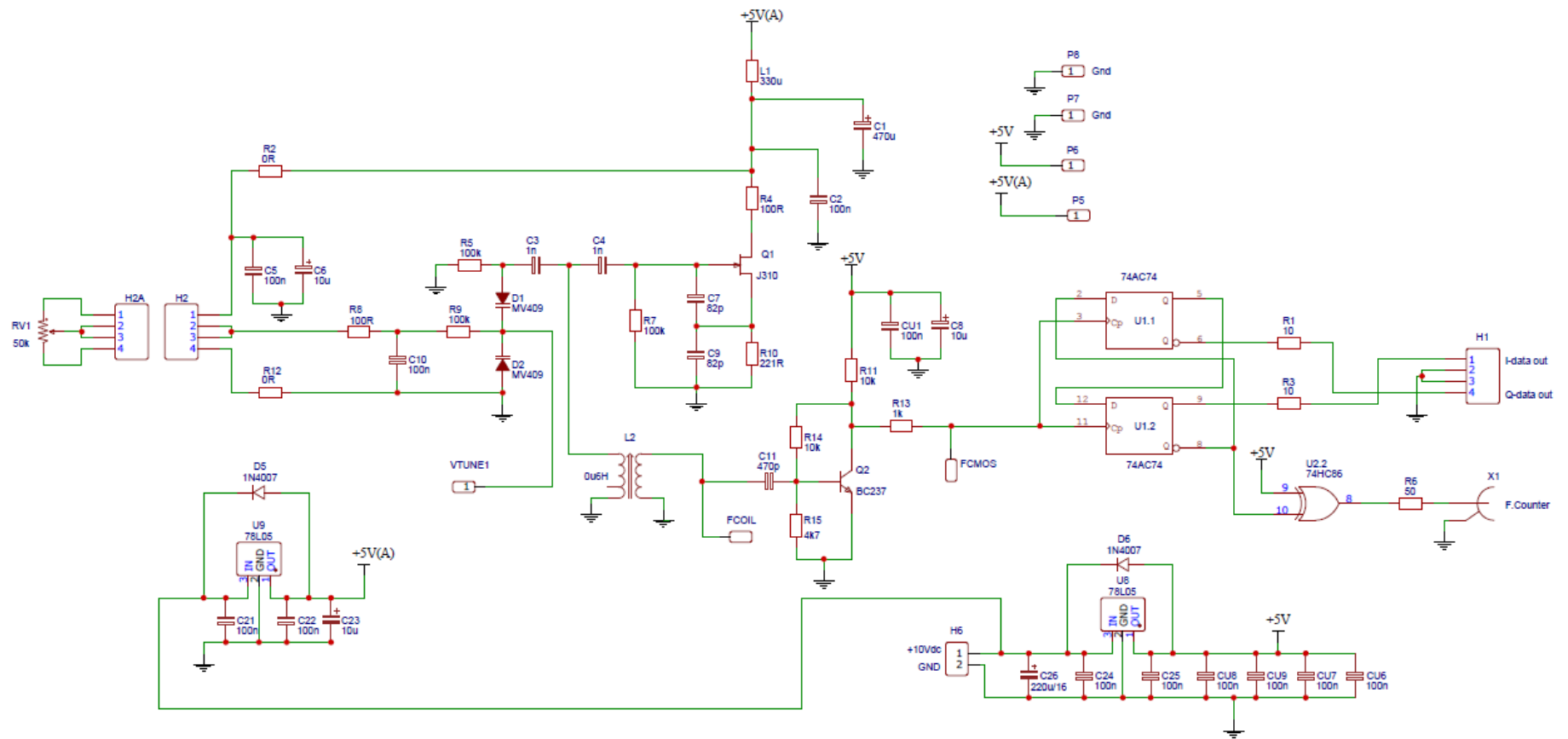


Figure 9. VCO Schematic

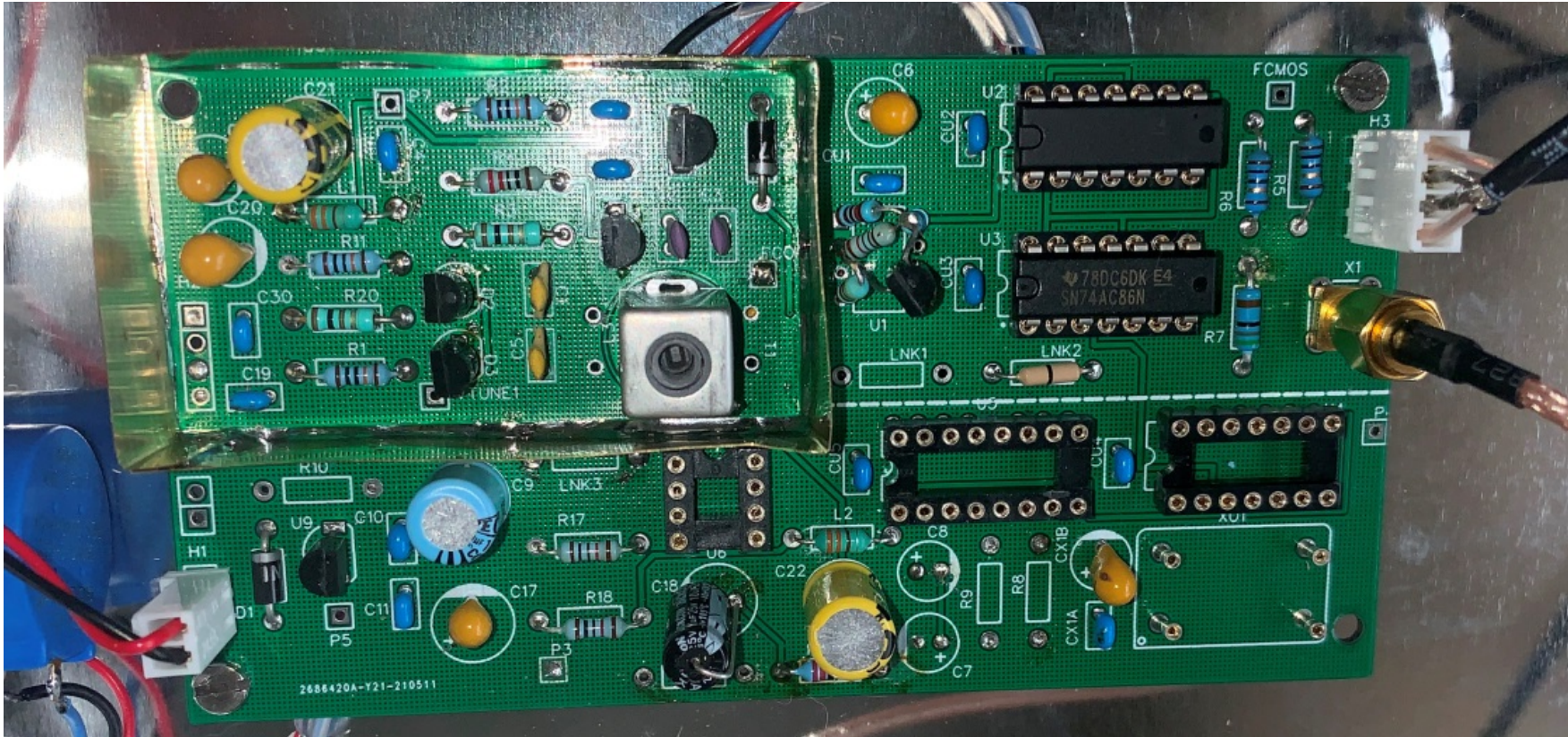


Figure 10. The VCO and supporting circuitry.

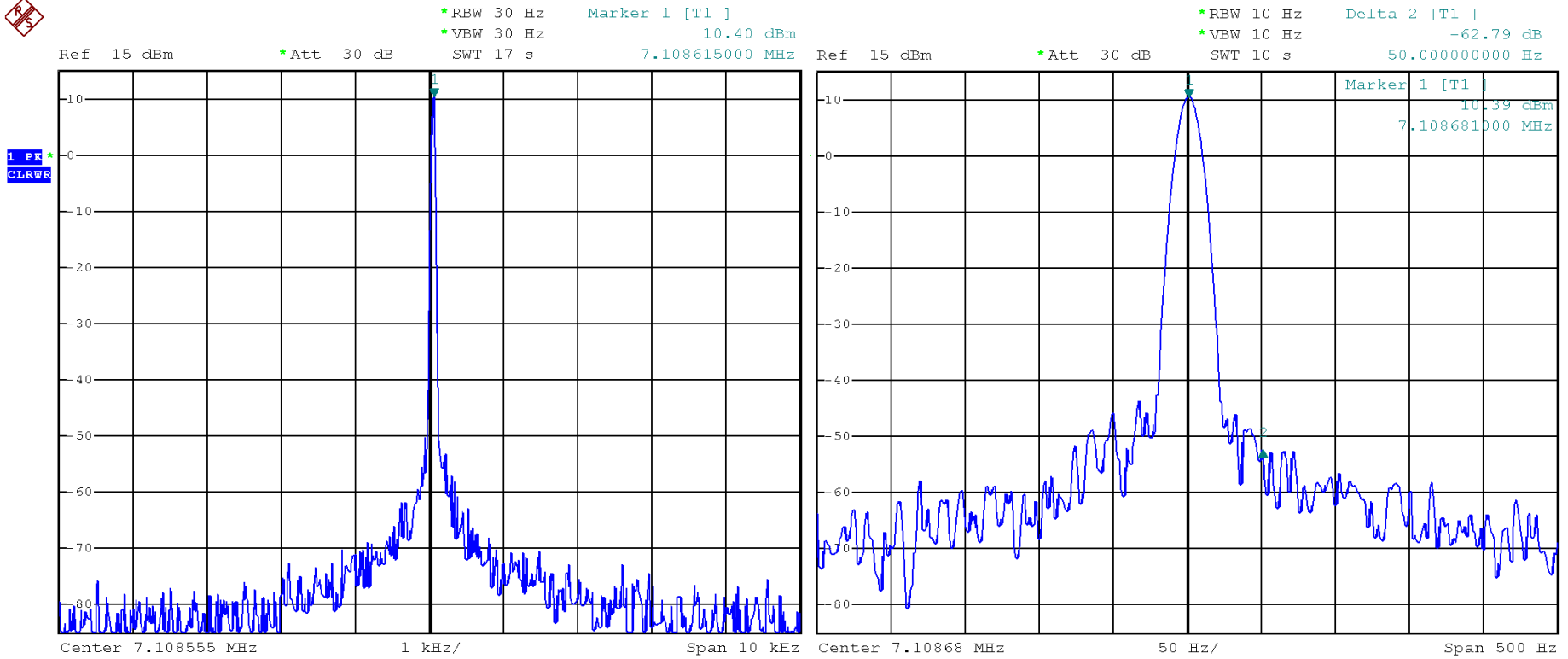


Figure 11. Measuring the VCO

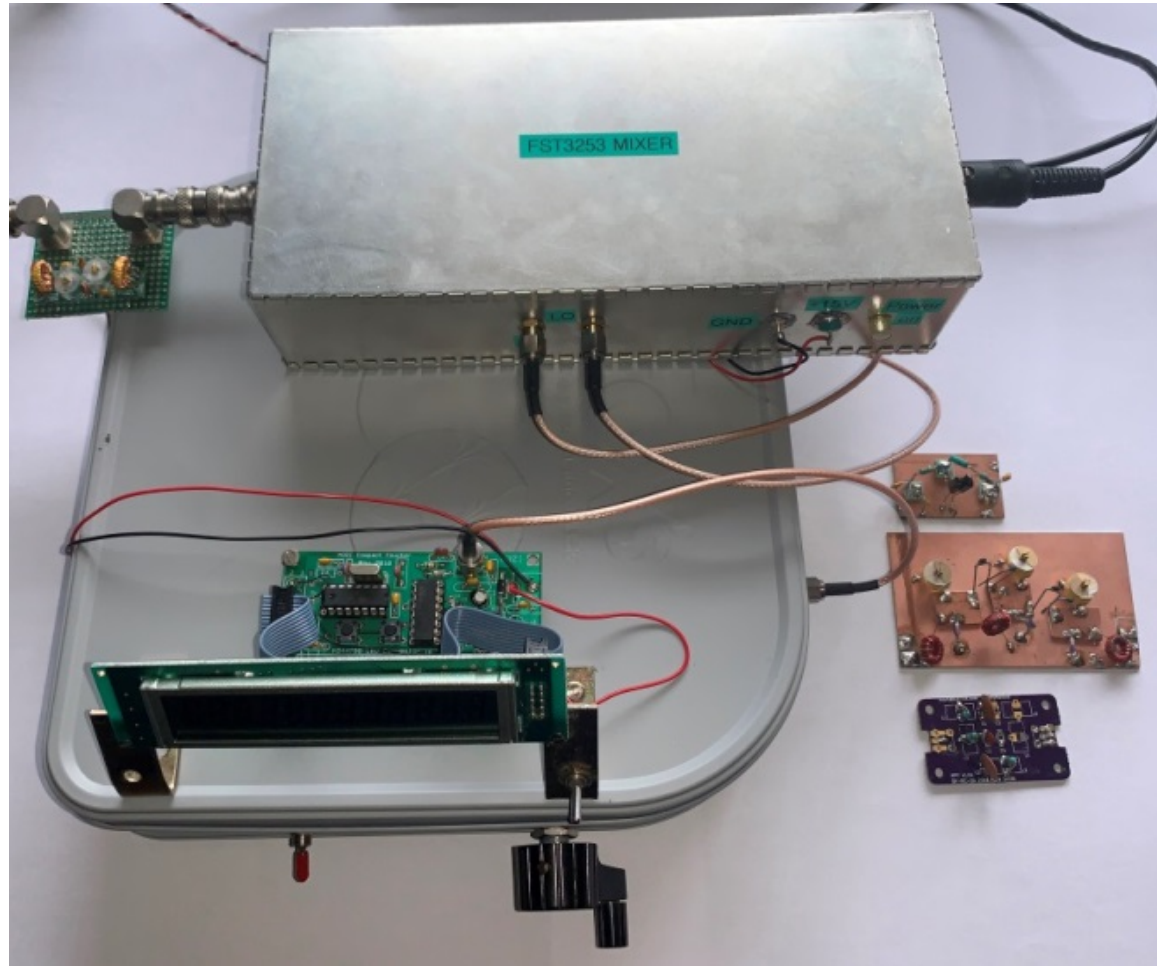


Figure 12. In action