

## **SDR Receiver – Part 1**

### **The Quadrature Product Detector – Photos and schematic**

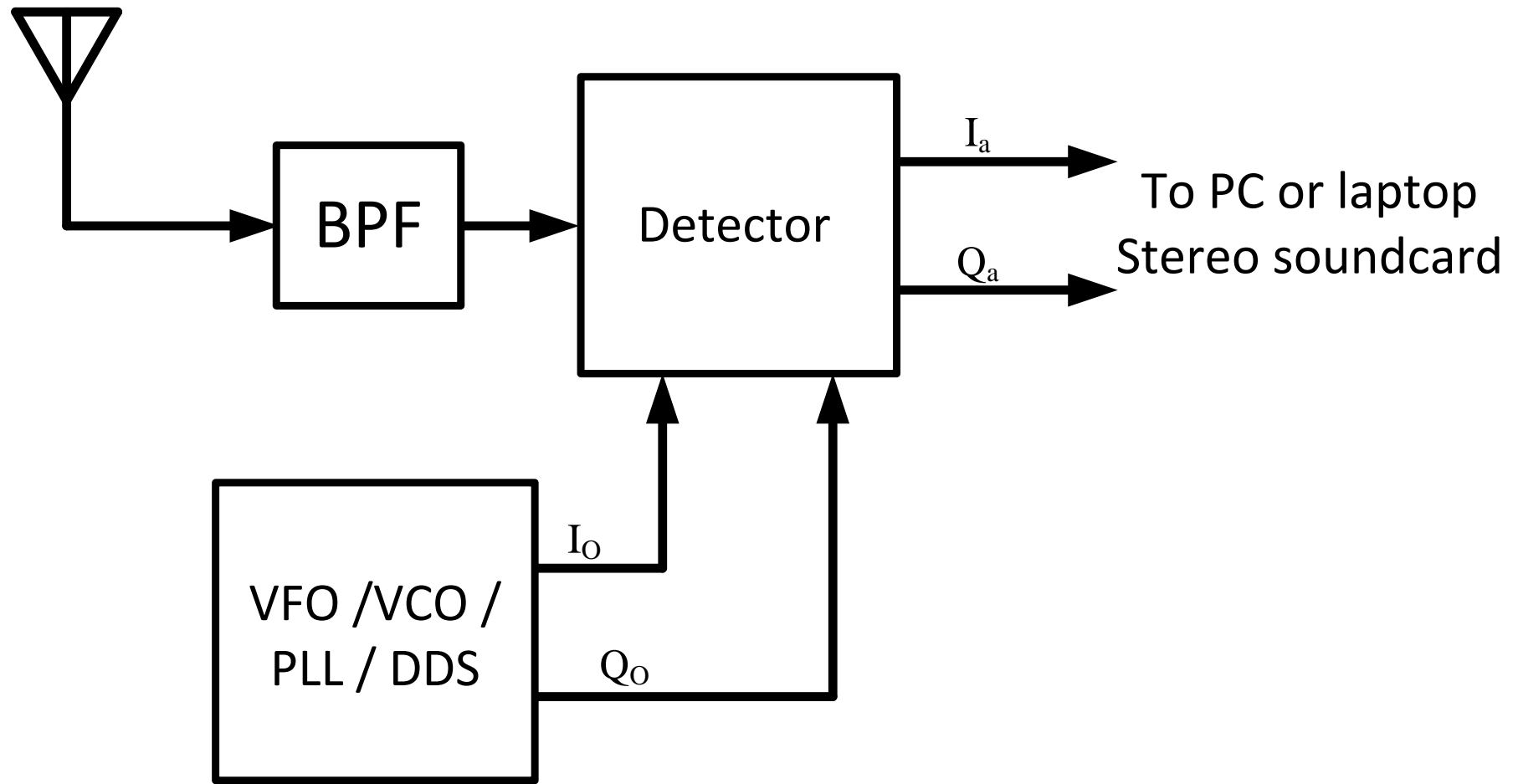
I published a construction article in the January 2021 edition of Practical Wireless Magazine.

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

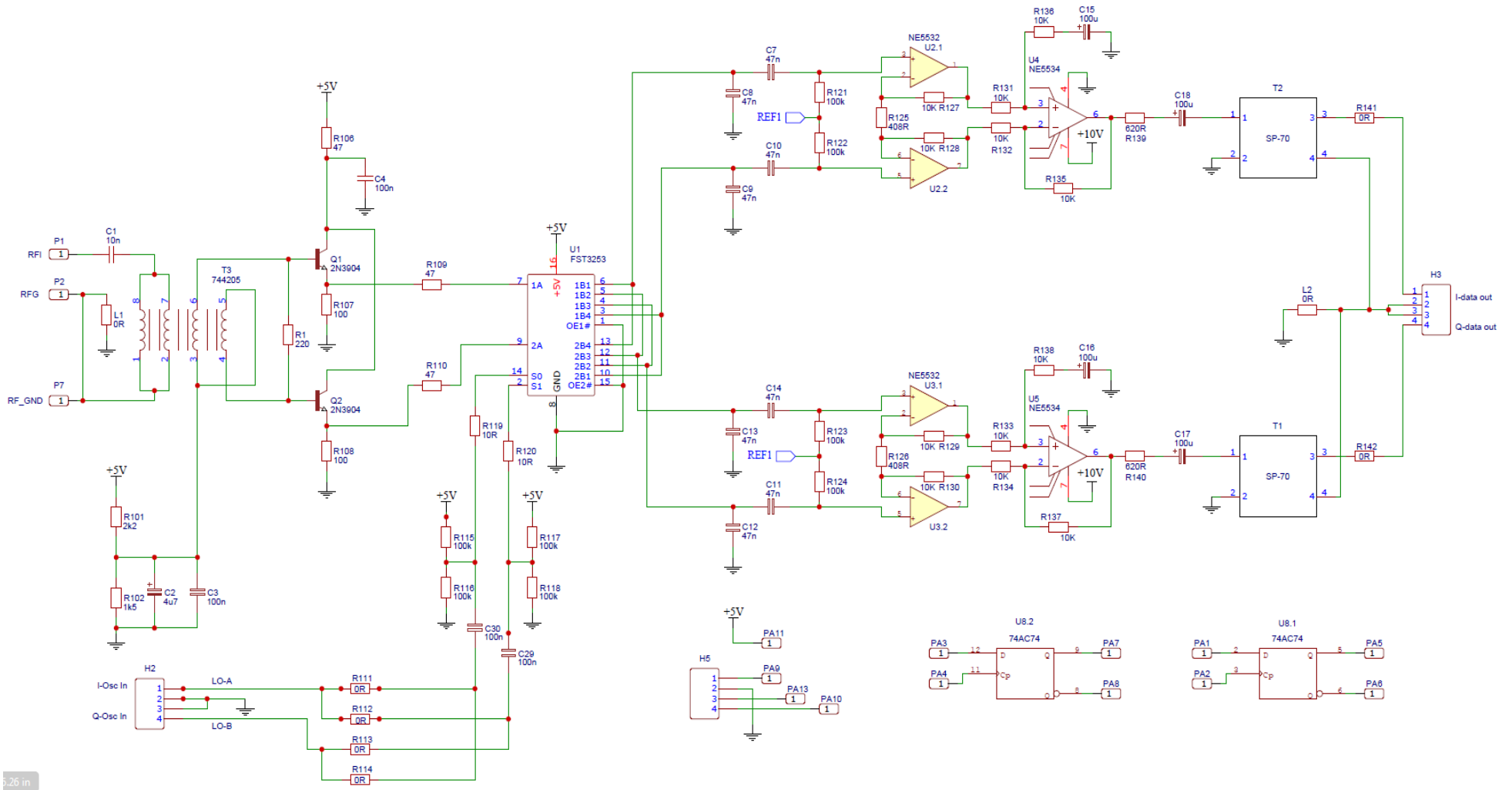
As necessitated by space constraints the photos and schematics in the article might be a little small to be of any use for some readers.

So here are each of the photographs in high resolution.

Samuel

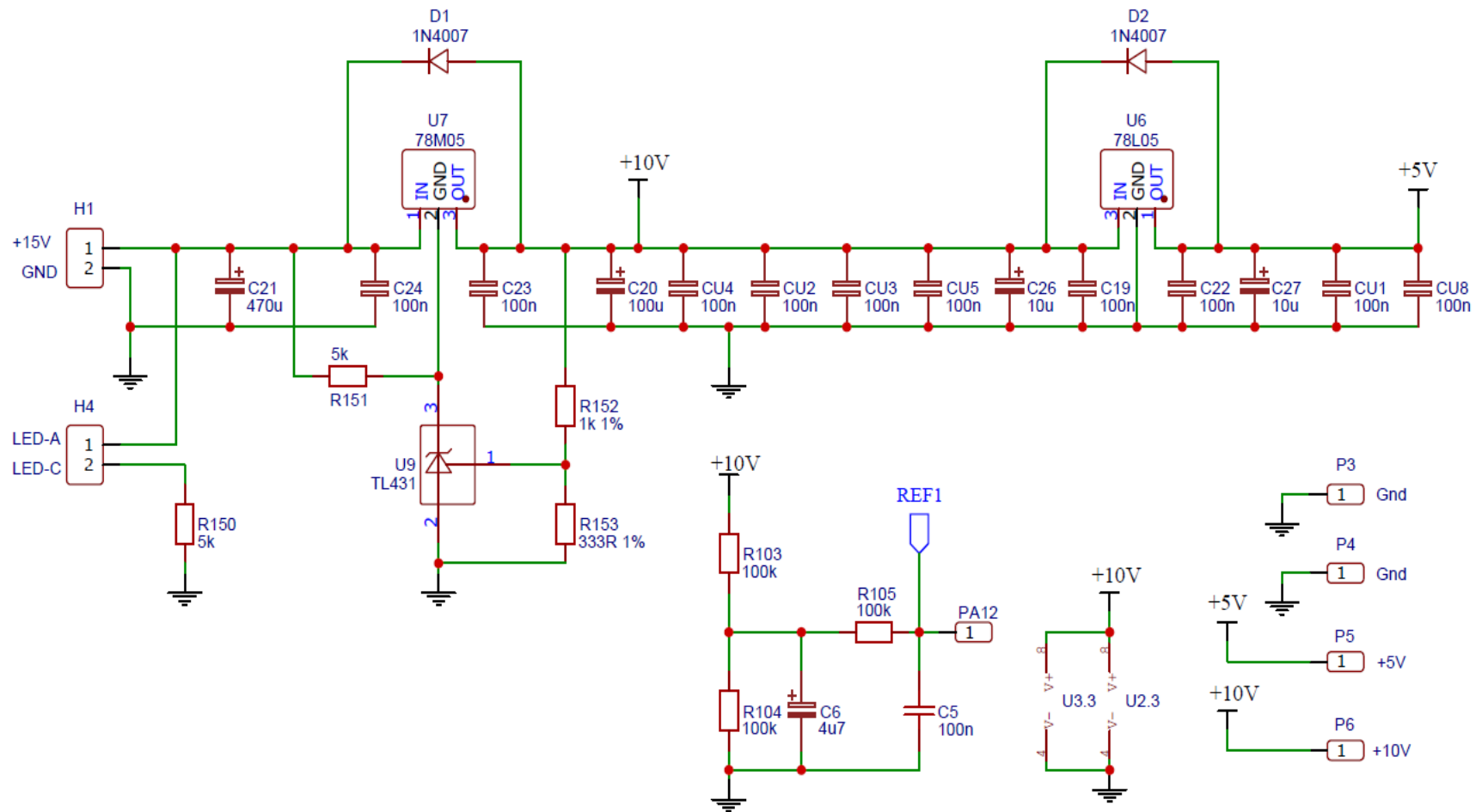


**Figure 1. Basic block diagram**

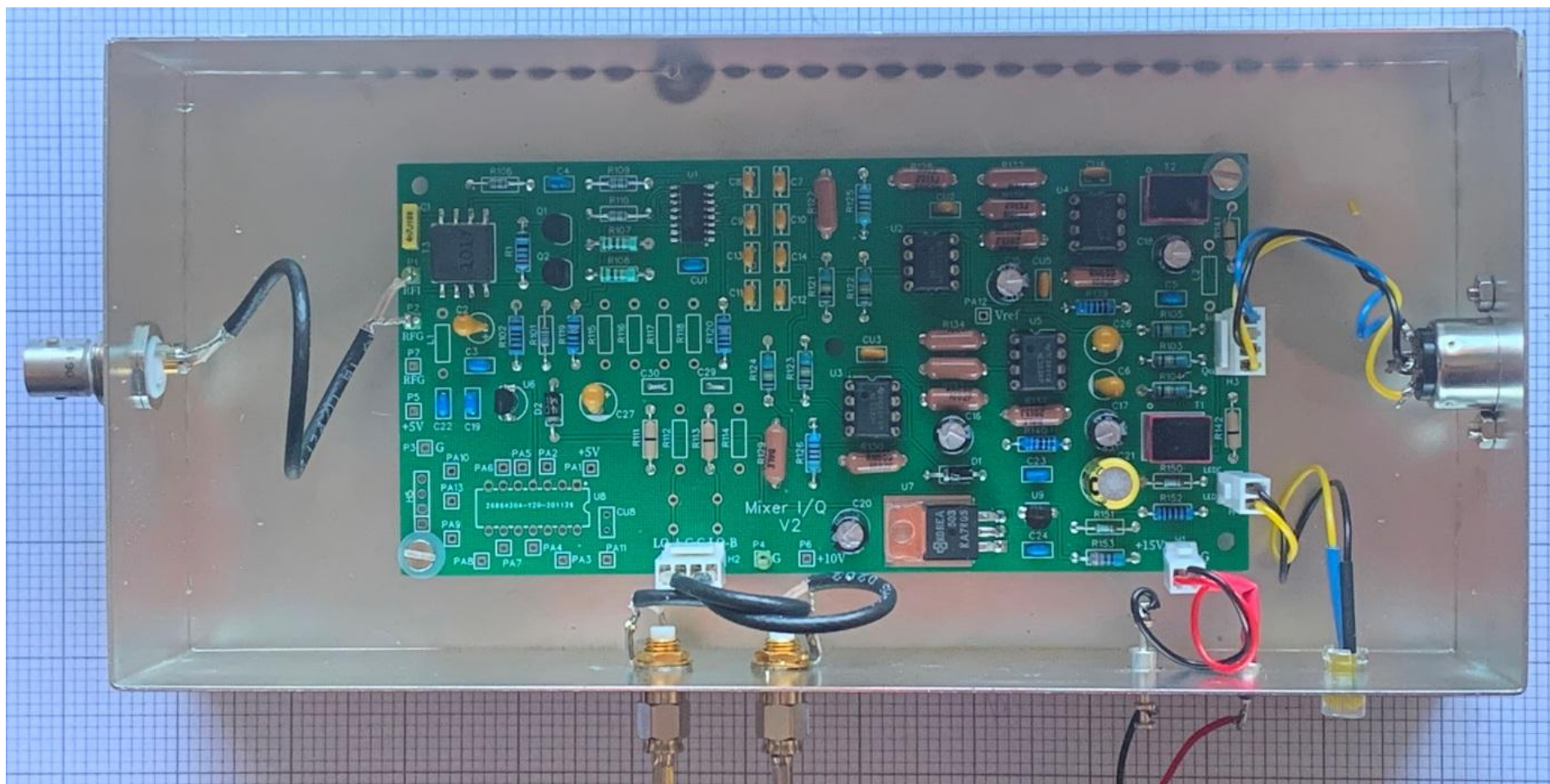


5.25 in

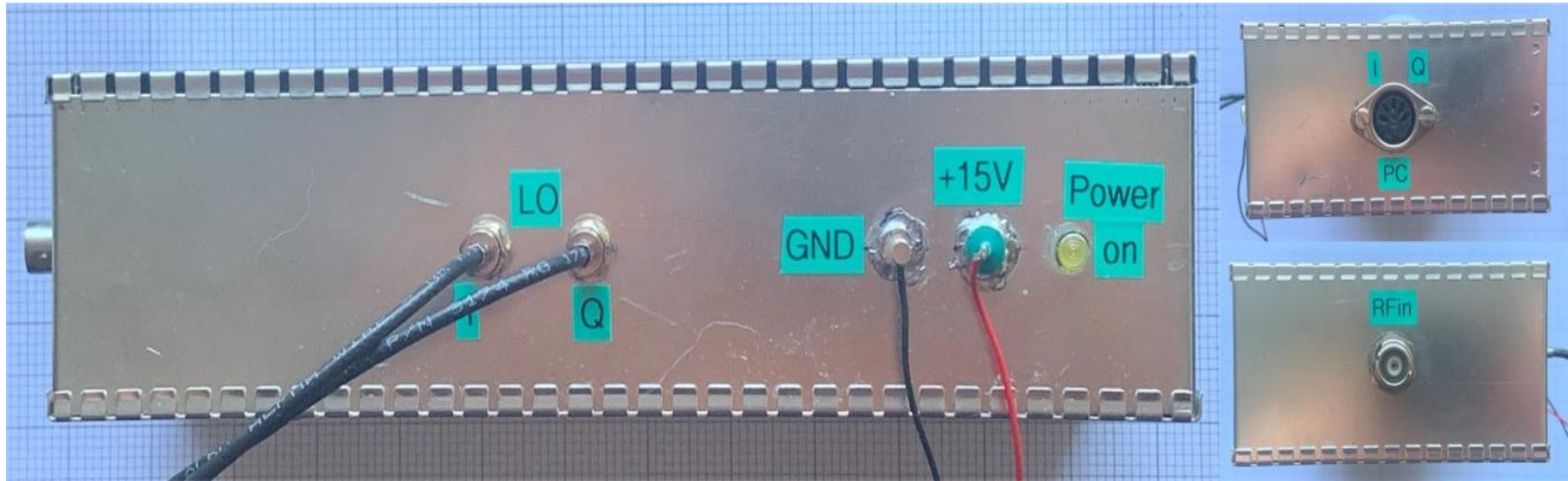
Figure 2. Schematic of the detector and I/Q amplifiers.



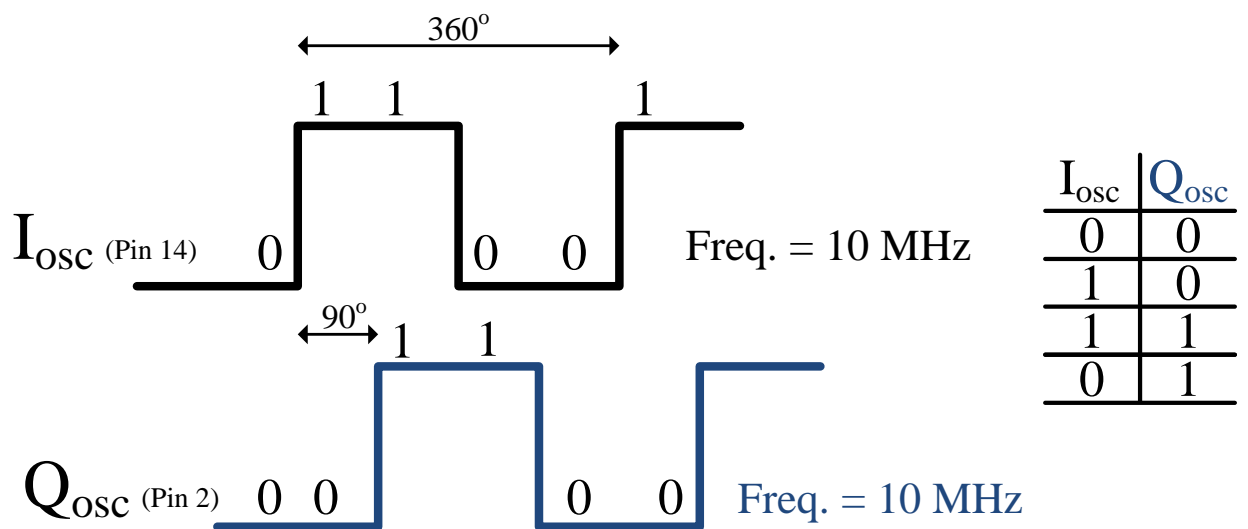
**Figure 3. Schematic of power supply and voltage reference.**



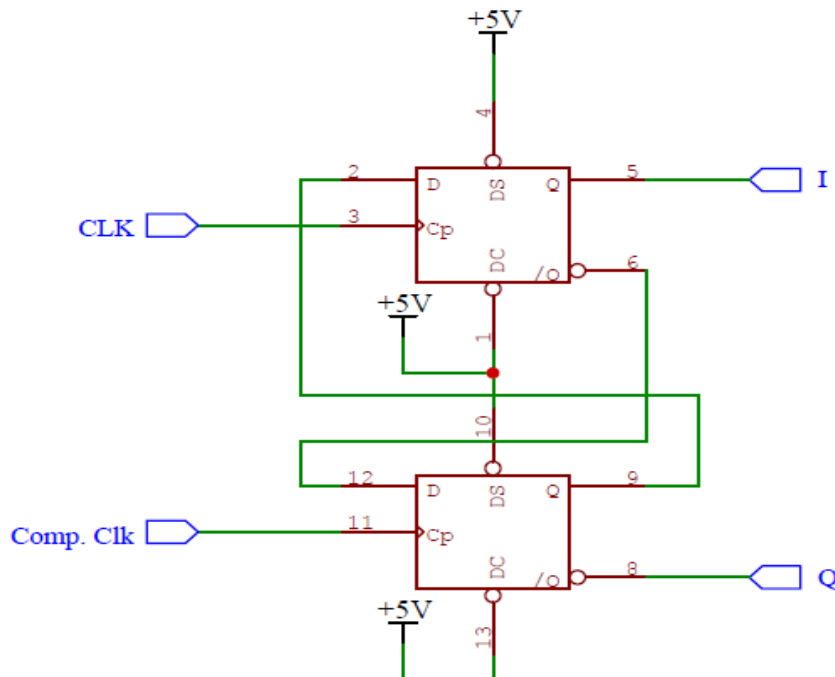
**Figure 4. PCB installed in enclosure**



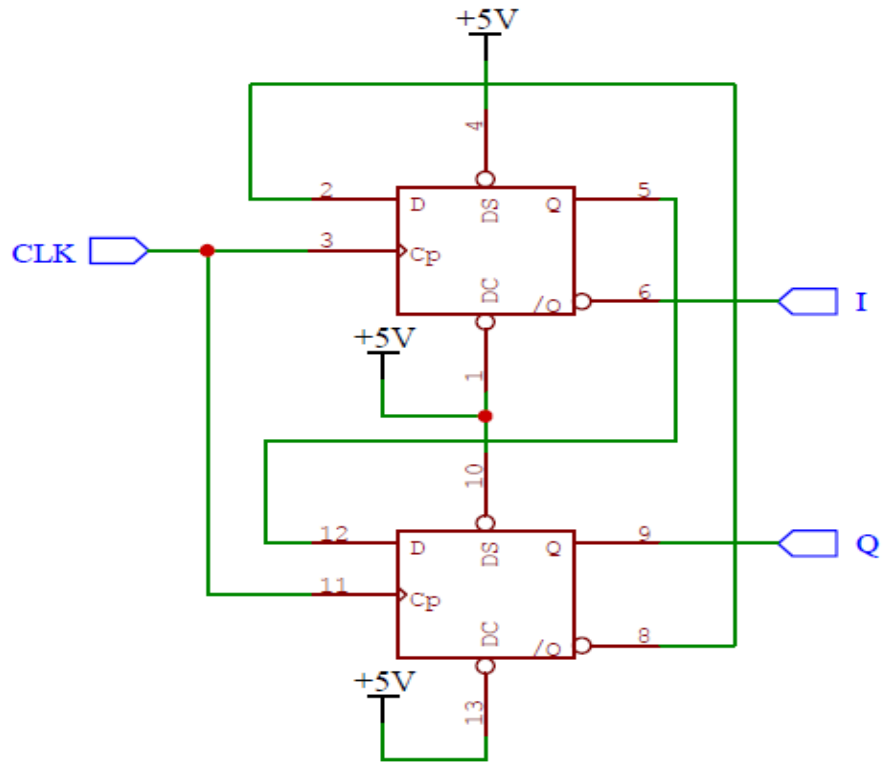
**Figure 5. Views of the enclosure**



**Figure 6. Square wave oscillator requirements**



**Figure 7. Complementary Oscillator inputs to Quadrature generator**



**Figure 8. Single input clock to quadrature generator.**