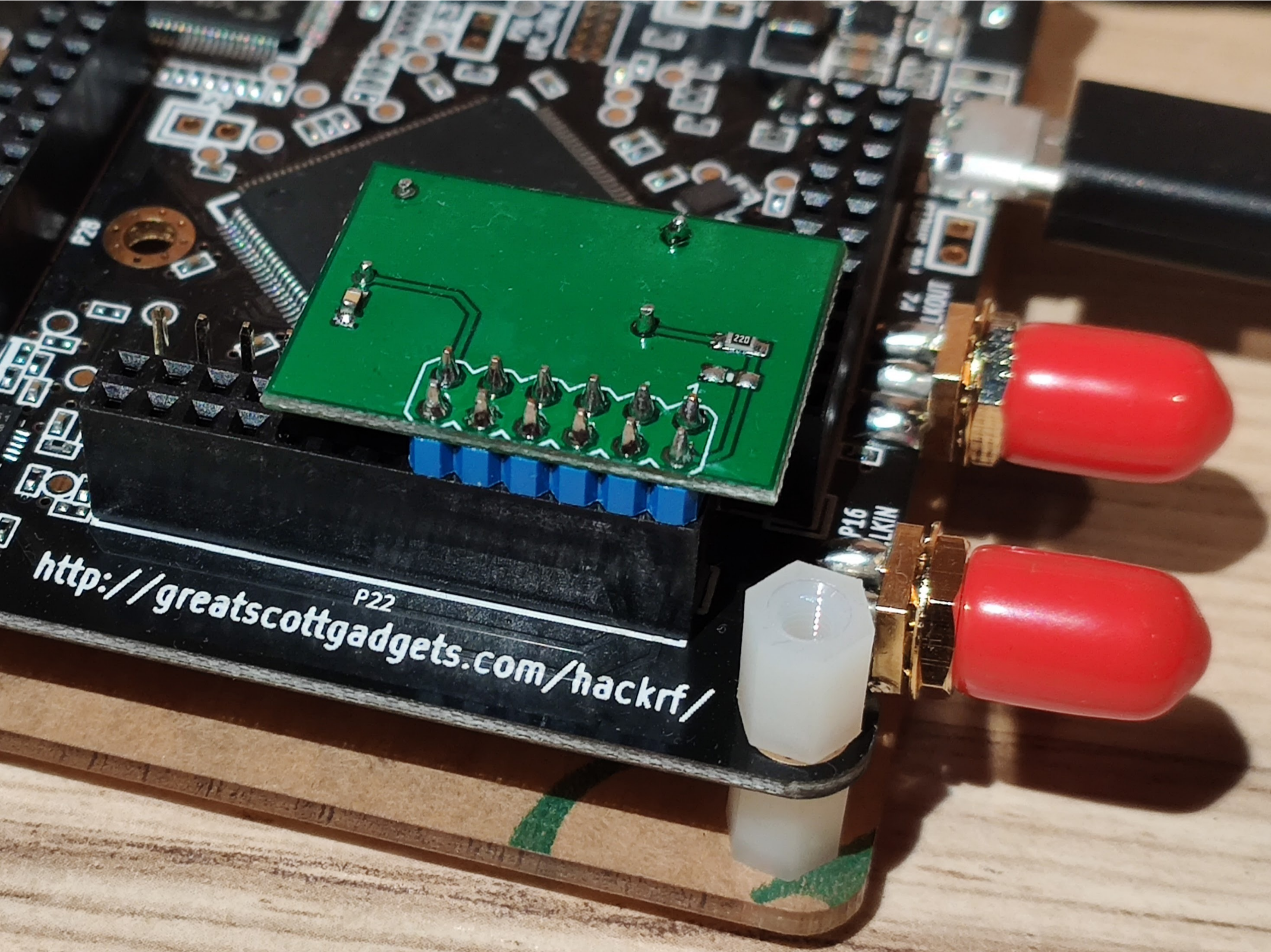**r3bers**
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June 13, 2019

Installing a TCXO in the HackRF One

There is a many old manuals how to install TCXO. Like this
https://ceworkbench.wordpress.com/2016/11/01/installing-a-tcxo-in-the-hackrf-one/

But I had two unresolved questions after.

First. All photos in manuals didn't show what exact pins must be inserted. I found it only on some aliexpress seller photos.

My TCXO on Board. First pin in first row and second pin in 6th row.

Second. Previous version of HackRF tools had *hackrf_si5351c* but new one don't. A new utility, *hackrf_debug*, replaces three older debug utilities, *hackrf_si5351c*, *hackrf_max2837*, and *hackrf_rffc5071*. (HackRF 2017.02.1 Release Notes)

To check TCXO execute the command:

hackrf_debug --si5351c -n 0 -r

If you get the response:

[0] → 0×01

the HackRF has recognized and is using the TCXO.

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