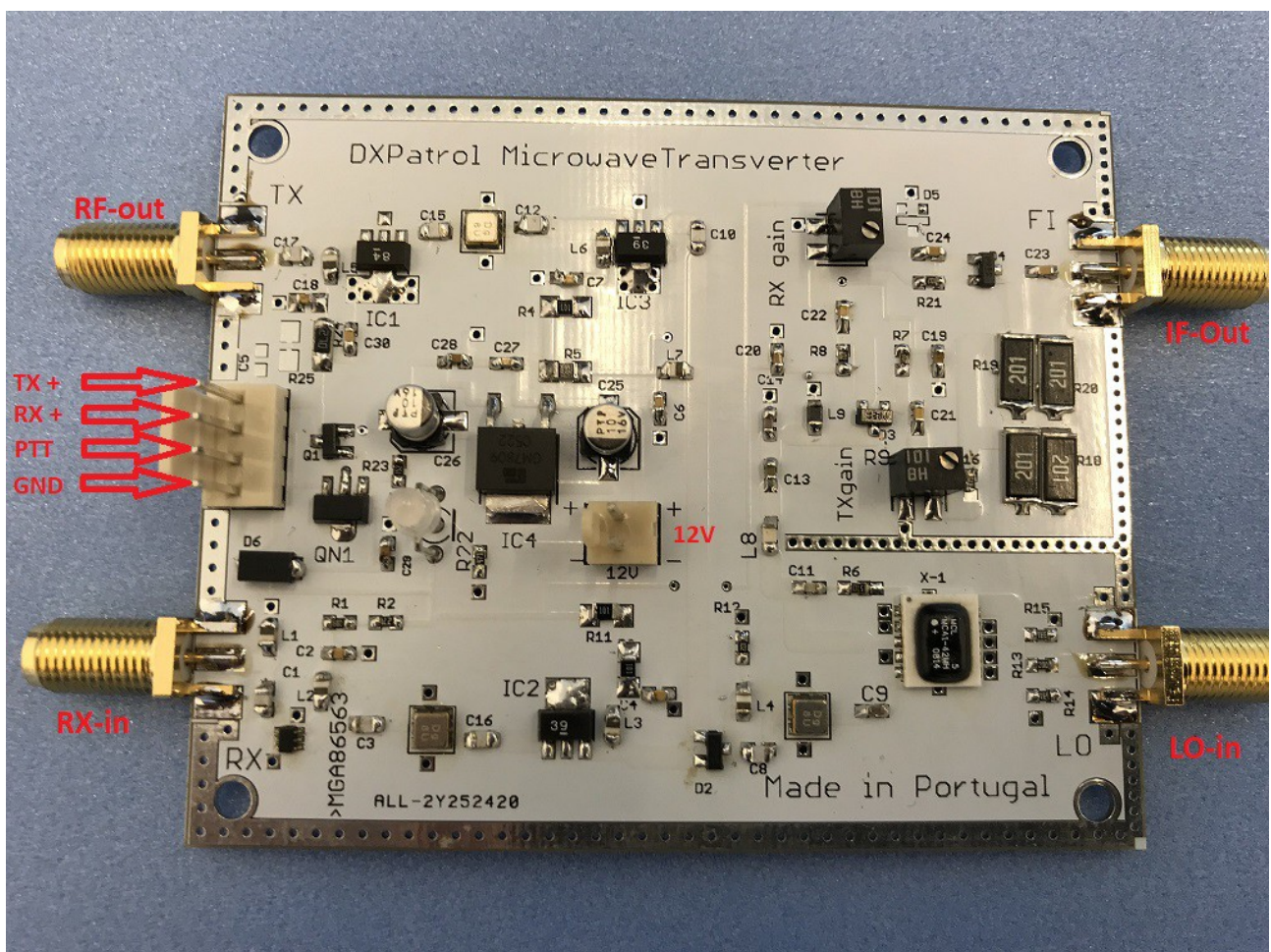
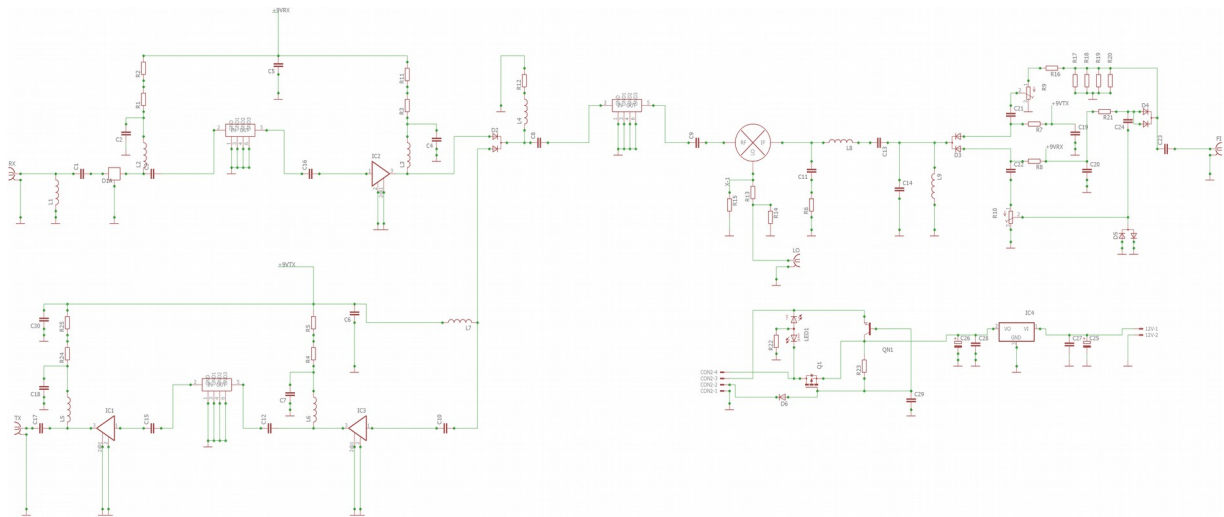




DX-Patrol Transverter

Specifications:

- 1296MHz , 2320MHz and 2400 MHz versions
- RX Conversion gain: 25dB +/- 2dB @ 2320MHz
- RX Noise Figure : < 2.5dB
- LO Input >>1296MHz<< 1152 MHz +10dBm
-(IF 144MHz)
- LO Input SSB/EME >>2320Mhz<<: +10dBm
- 1890MHz (IF-432Mhz)
- 2304MHz version available*
- LO Input **Es'hail-2** satellite >>2400Mhz<<: +10dBm
- 1966Mhz (434MHz)
- TX RF input: 35dBm (3W) 144 or 432 MHz
- TX RF output: 20dBm (100mW)
- Power supply: 10-16V
- Connectors: SMA



Typical Saw filter cut diagram.



This is a complete TX/RX module transverter for TX and RX 13cm or 23cm band.

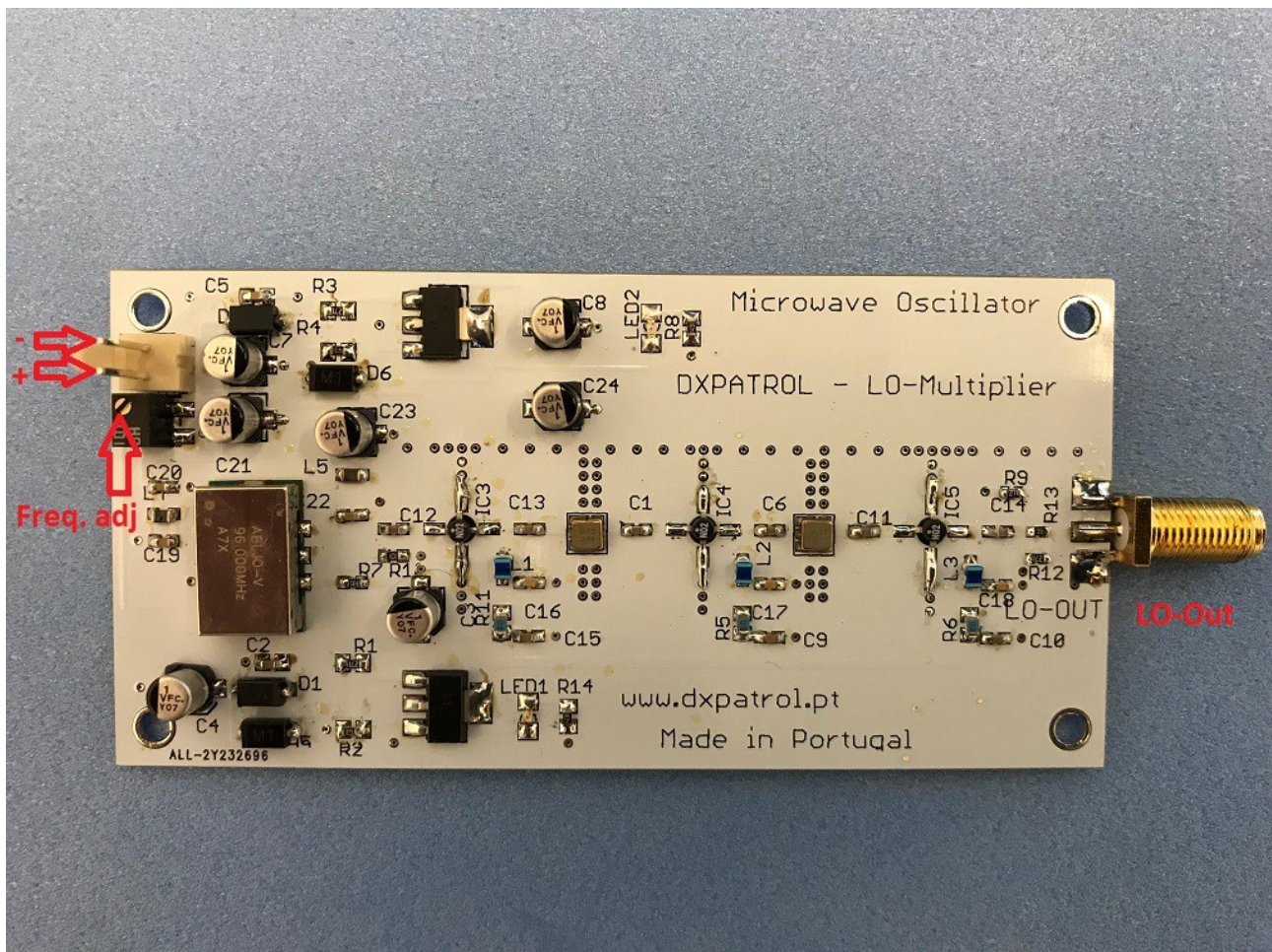
Covers the SSB/CW/FM and Satellite segments of 13cm band

Local Oscillator.

Using a Ultra Low Jitter ABLJO from Abracon Crystal Oscillator.

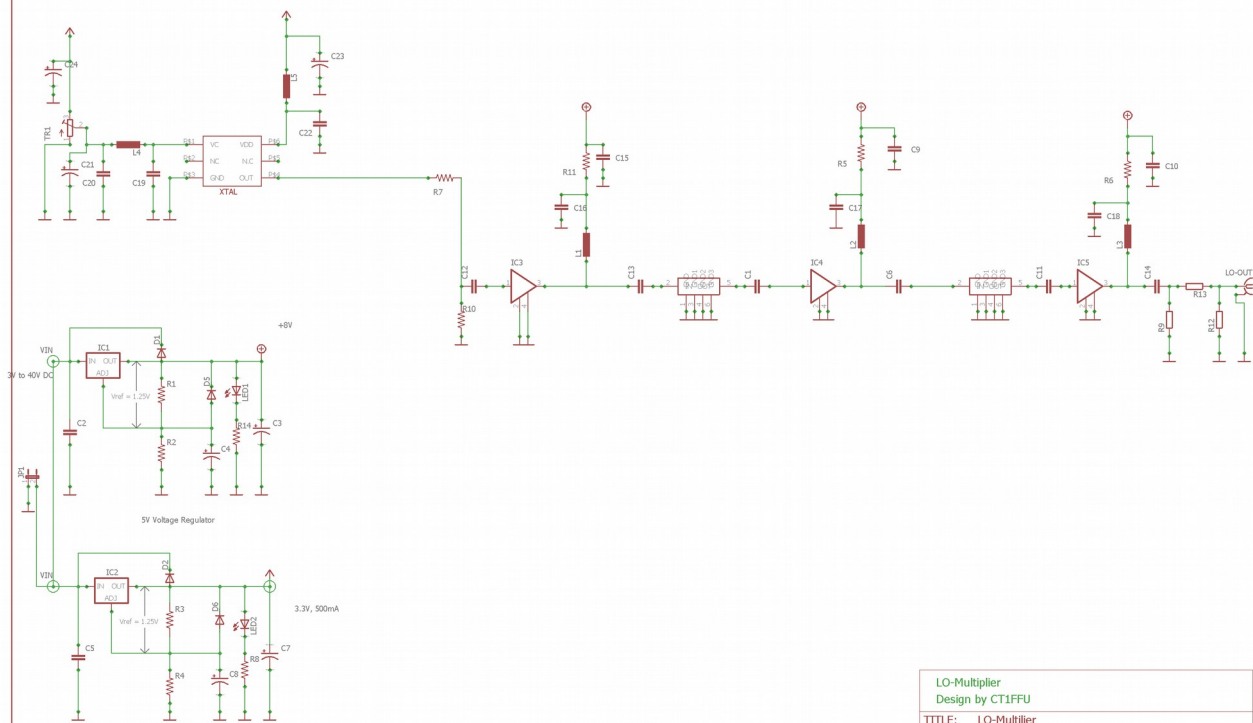
- High "Q", 3rd Overtone Crystal Technology
- Ultra Low Jitter performance 0.10 ps Max. (12kHz to 20MHz)
- Standard LVCMOS RF Output
- Wide Operating Temperature (-40°C to +85°C) standard
- ± 40 ppm Max. All inclusive Stability (including Aging) over 10-years

The Frequency is multiplied several times and amplified to 10dBm level.

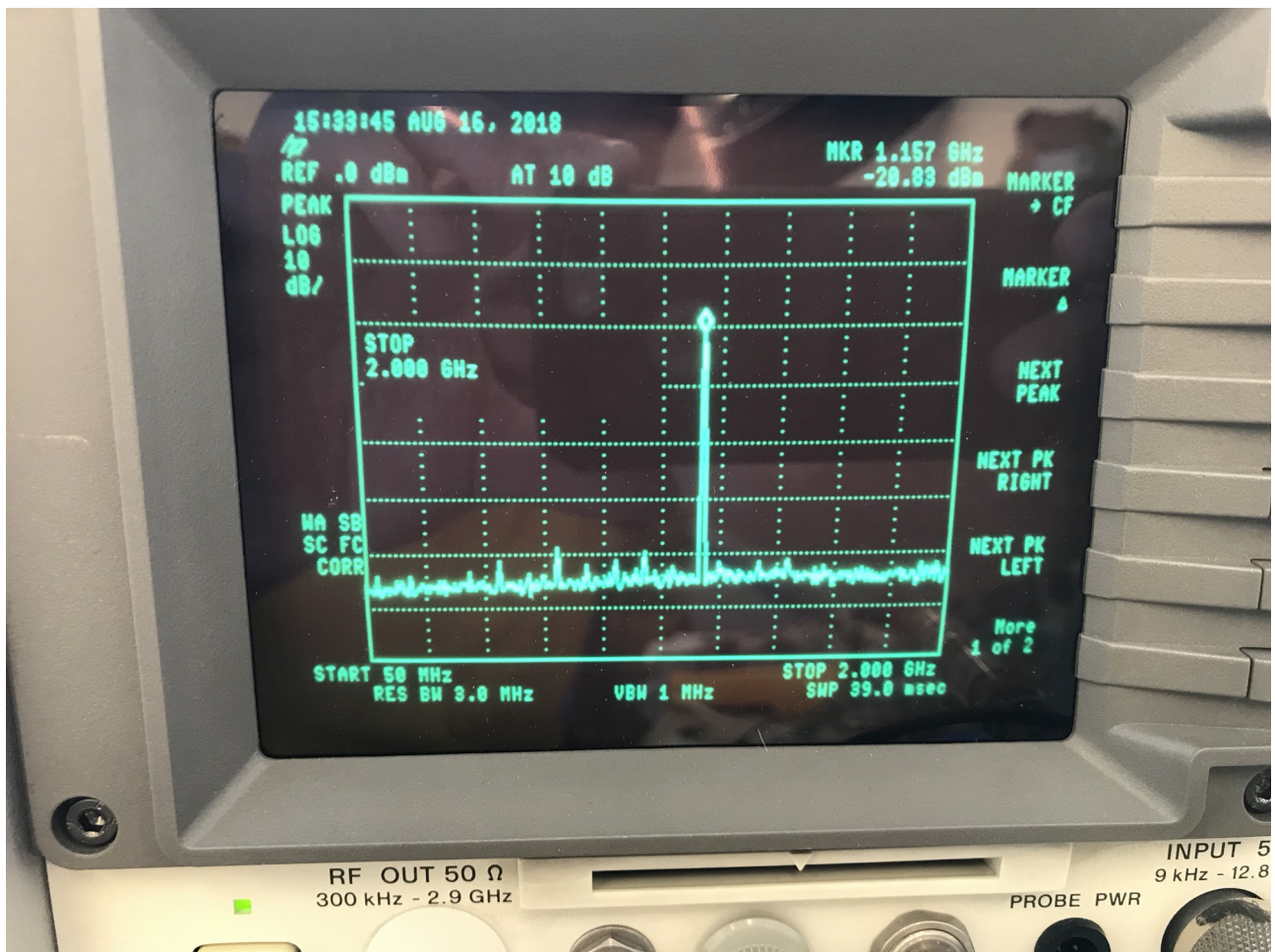


There are 3 diferent Local Oscillator boards:

- 1152MHz for 23Cm - X23 (1296MHz)
- 1890MHz for 13Cm - X13 (2320MHz)
- 1966MHz for 13Cm - X13 (2400Mhz)



LO-Multiplier Design by CT1FFU	
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Local Oscillator signal over a 50MHz to 2GHz span.