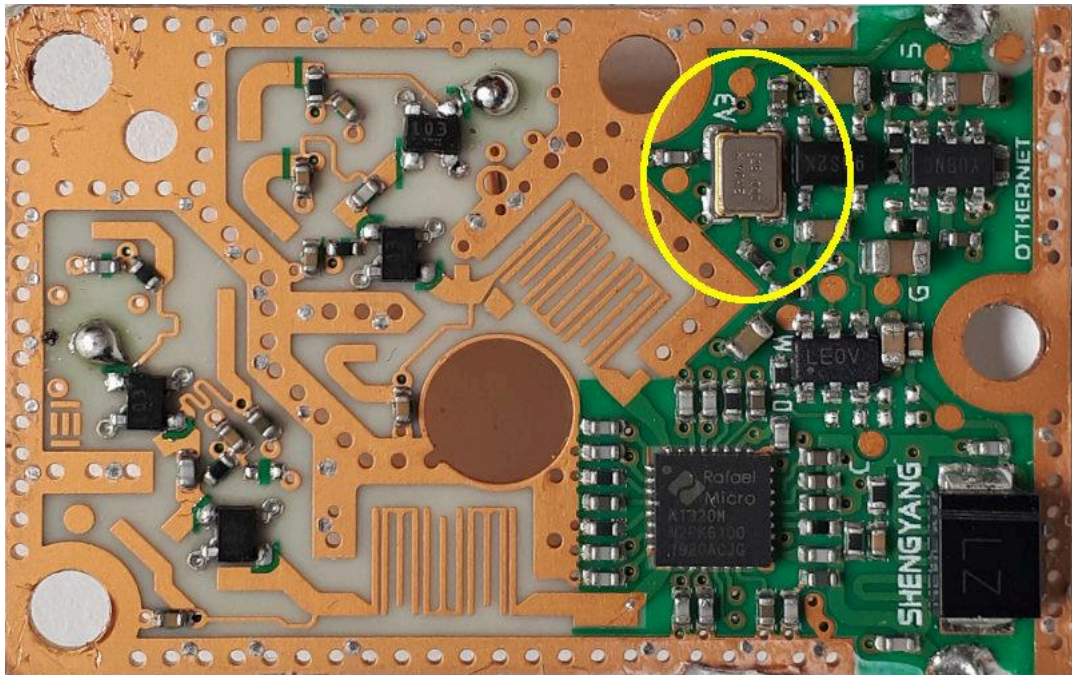


Test du LNB Othernet "Bullseye BE01"

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READ THE UP-TO-DATE VERSION ONLINE:
<http://www.pabr.org/radio/otherlnb/otherlnb.fr.html>

Historique des versions		
1.0	2020-03-01	Première publication.
1.1	2020-05-20	Références supplémentaires. Clarifications d'Othernet.

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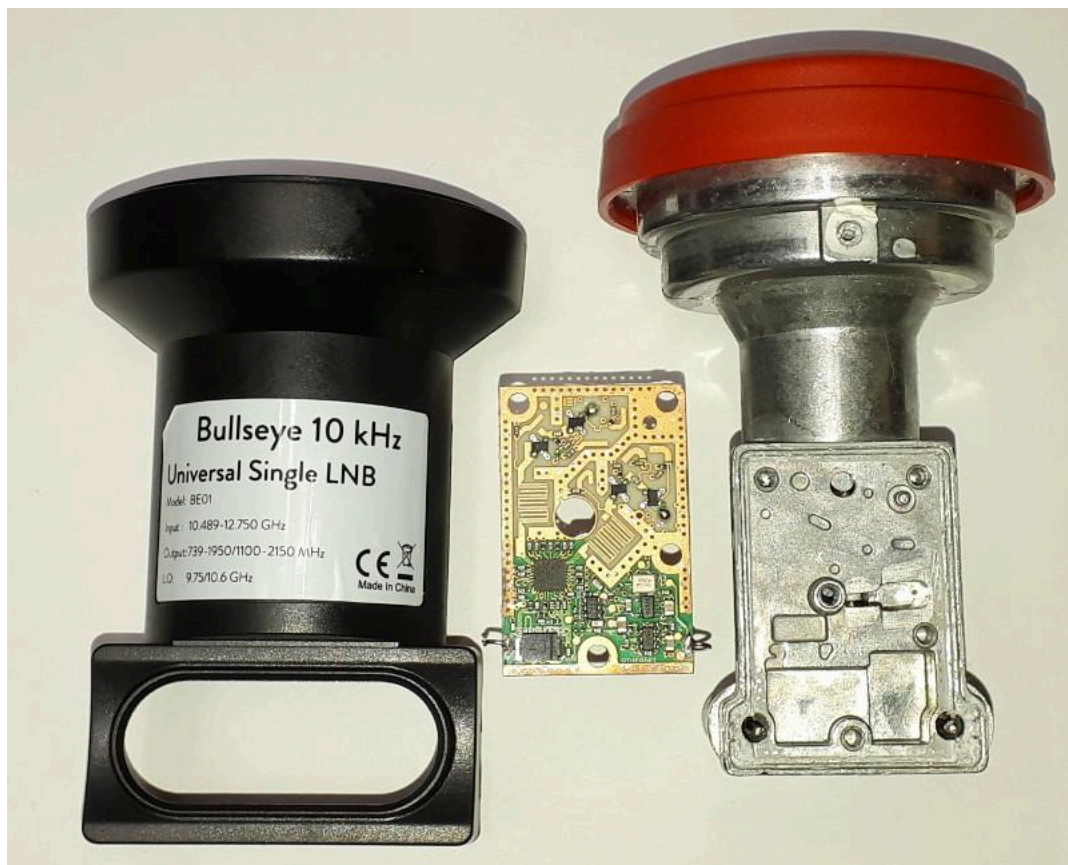
1. Introduction

2. Spécifications

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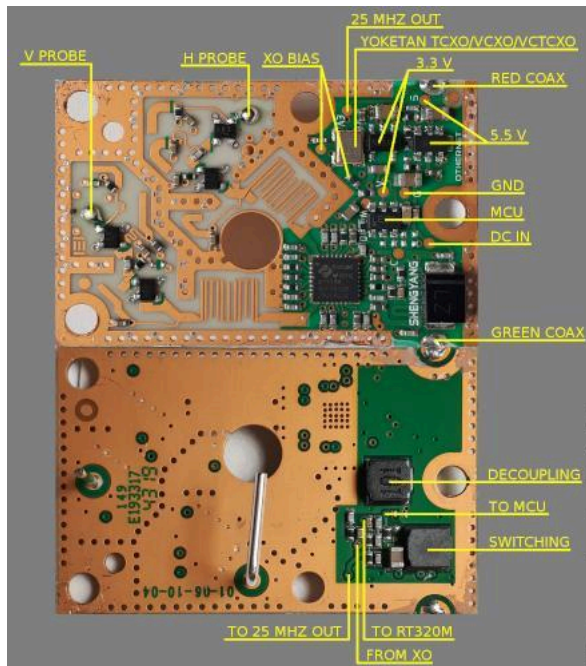
3. Détails de construction

Figure 1.



<http://www.pabr.org/radio/otherlmb>

Figure 2.



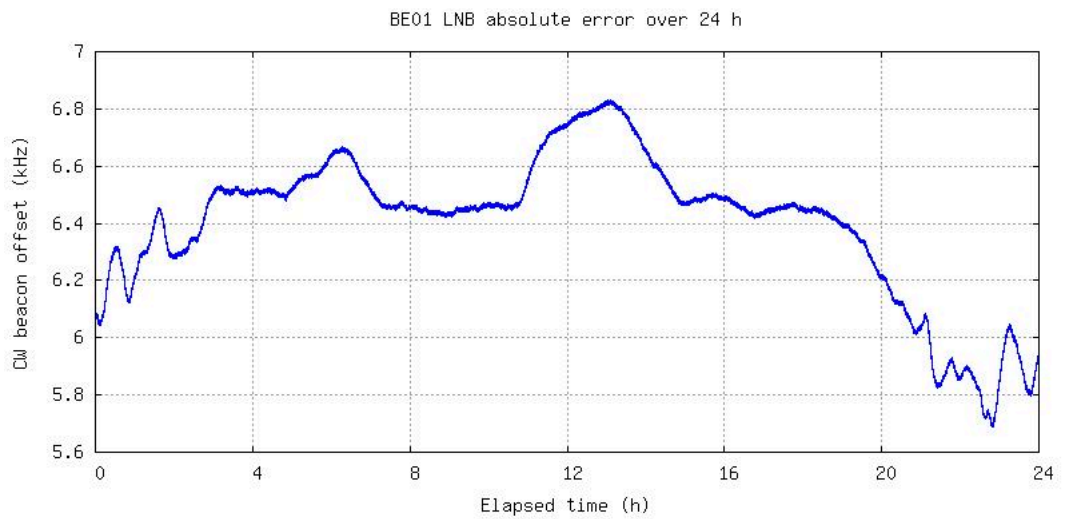
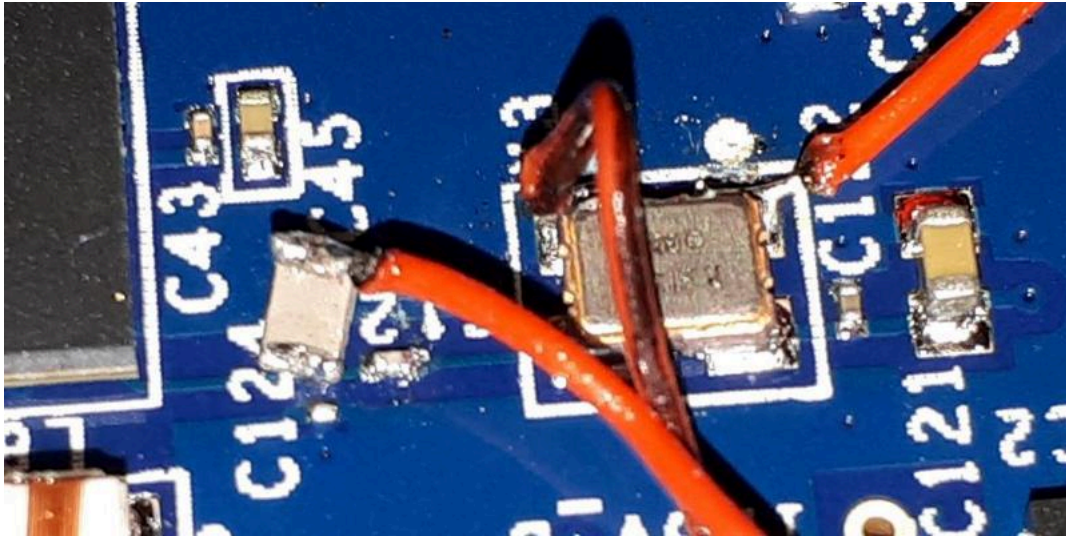
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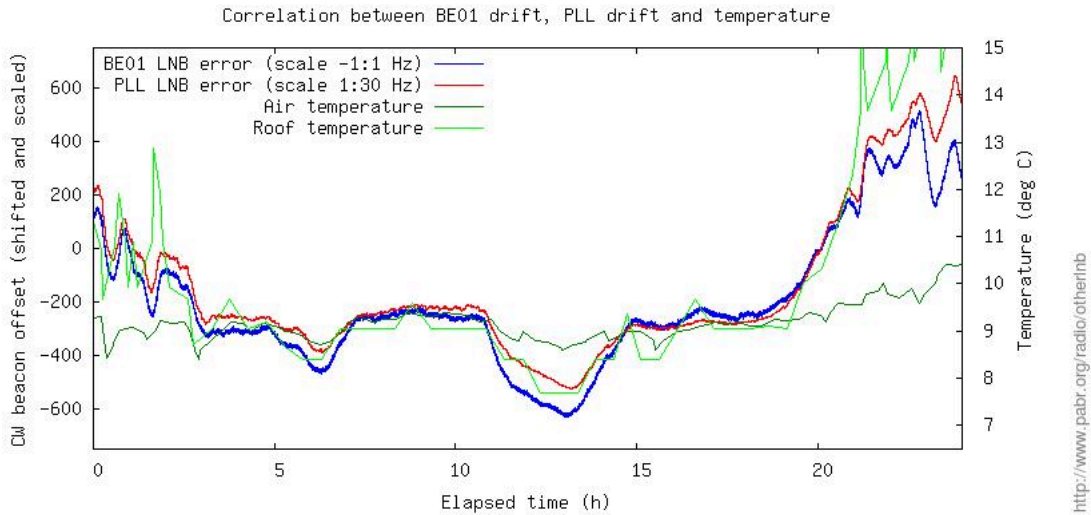
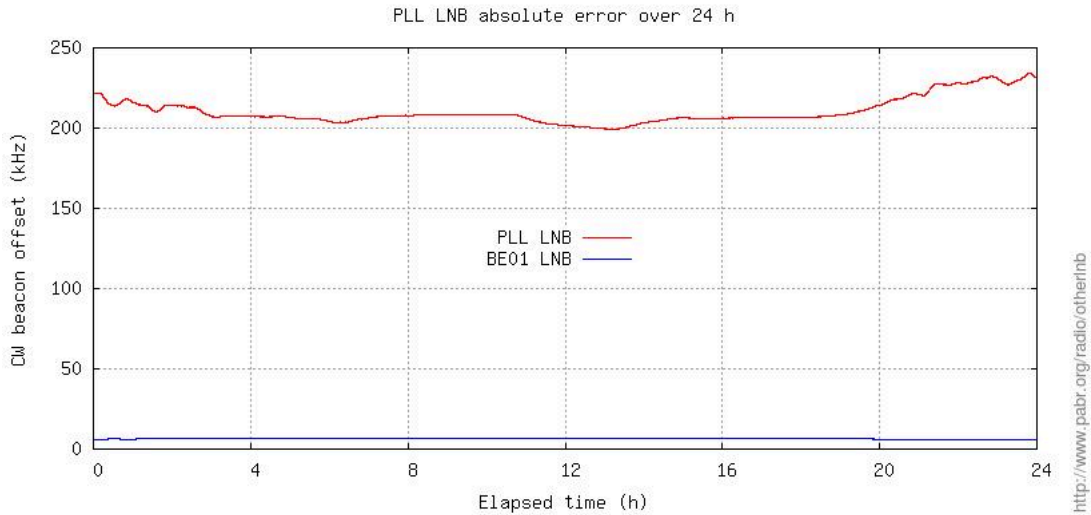
4. Testing

- BE01 mounted on 120 cm dish, powered by bias tee
- IF output connected to a PlutoSDR via low-pass filter and attenuator
- PlutoSDR TCXO disabled by grounding pin 1
- 25 MHz output connected to 30 dB amplifier and injected into XTALN of AD9363 via 470 pF decoupling cap
- PlutoSDR firmware configured to expect a 25 MHz clock (see [MADEL20190105])
- PlutoSDR tuned to 739.675 MHz, sampling at 300 kHz

- CW beacon tracked by GNU Radio "PLL Freq Det" block
- BPSK beacon coarsely derotated by CW beacon tracker, then demodulated by GNU Radio "Clock Recovery MM" and "Costas Loop" blocks.

Figure 3.





5. Conclusion et perspectives

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Bibliographie

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