



## Ultra High dynamic range Low band pre-amplifier

Very High Dynamic Range, dual common-base broadband RX-amplifier.

Dedicated to extreme demanding DX operations.

Beverages, RX-loops, etc.

Extremely high 2nd and 3rd order input intercepts (IP2 and IP3)

Frequency= 1MHz to 30MHz

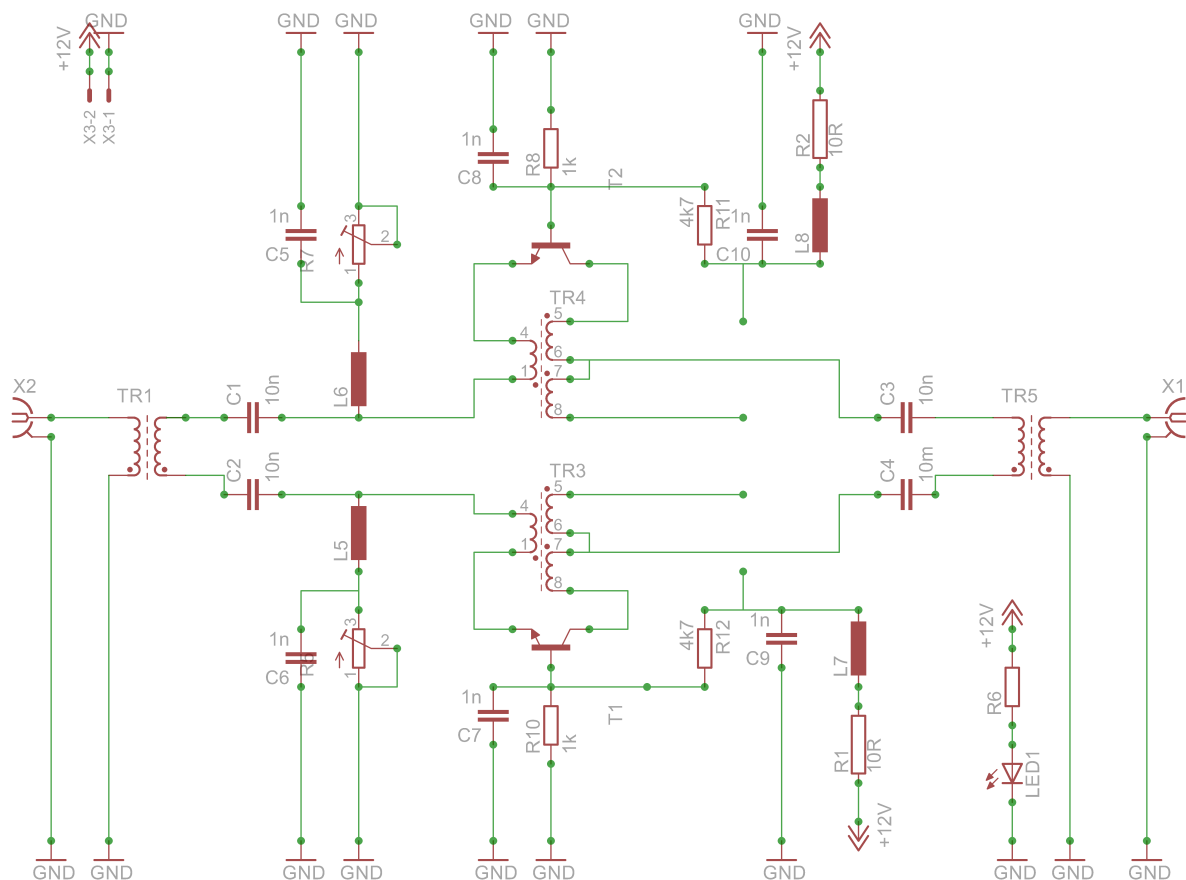
**Gain= 12dBs**

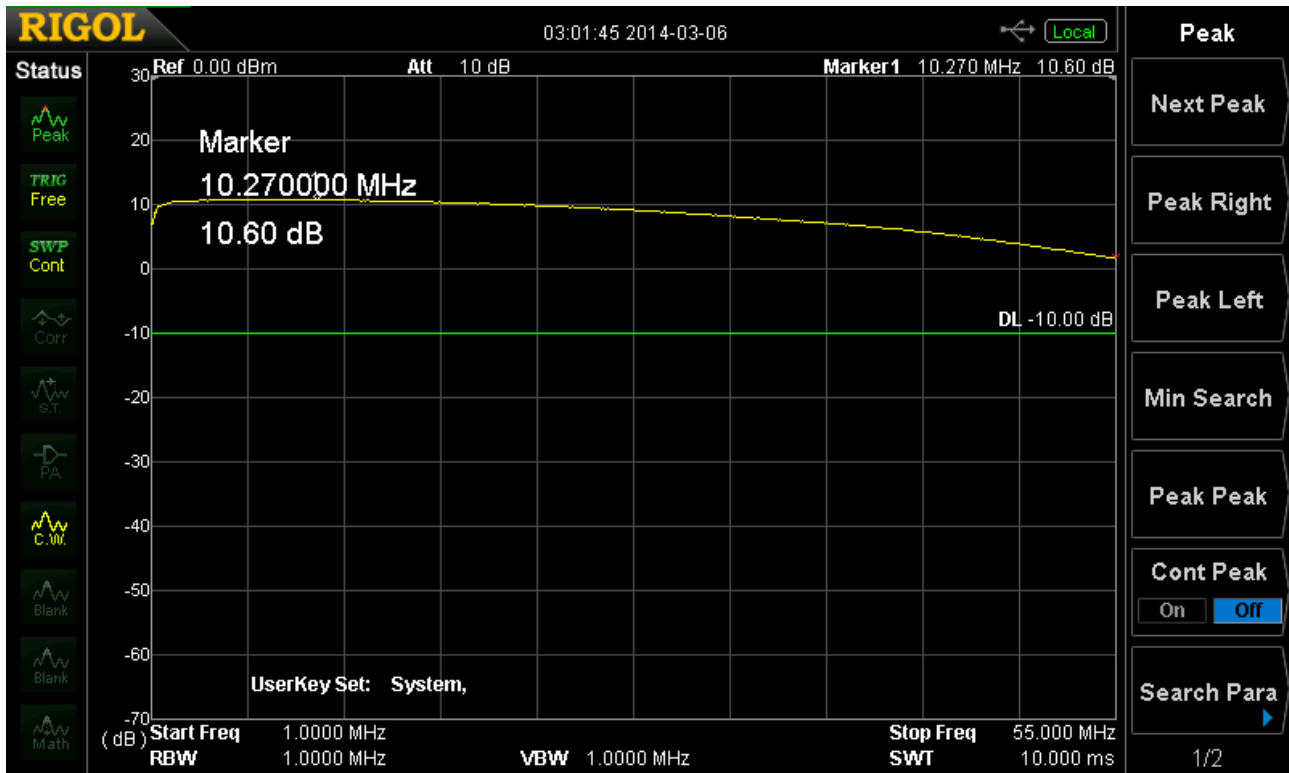
**IP3= +35dBm**

**IP2= +95dBm**

Inspired on the legendary Norton Pre-amplifier design

circuit diagram:



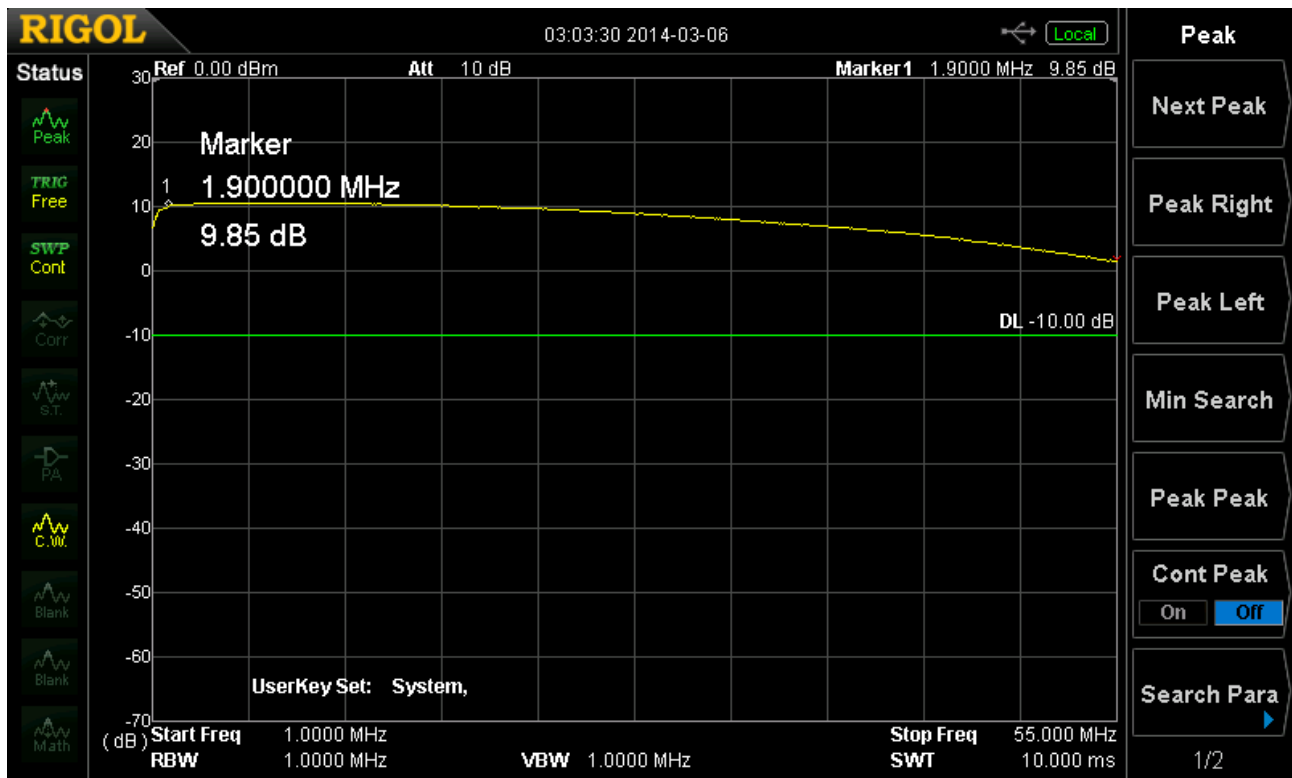


Span from 1MHz to 55Mhz

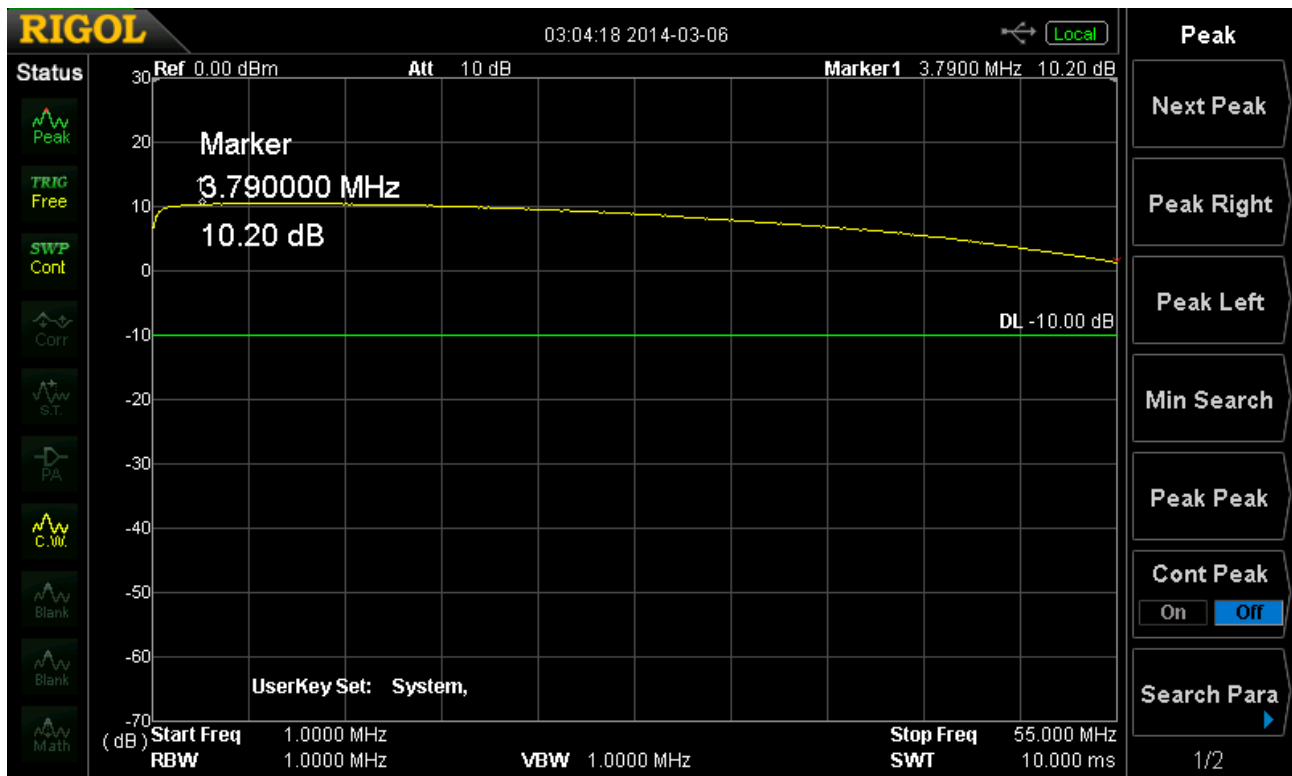
Specially designed for max performance on Low-band  
gain substantially 11dBs near 2 S-units, from 160m to 20m

For the most demanding DX operations on Top Band.  
Superb clear and louder reception on your RX-antenna.

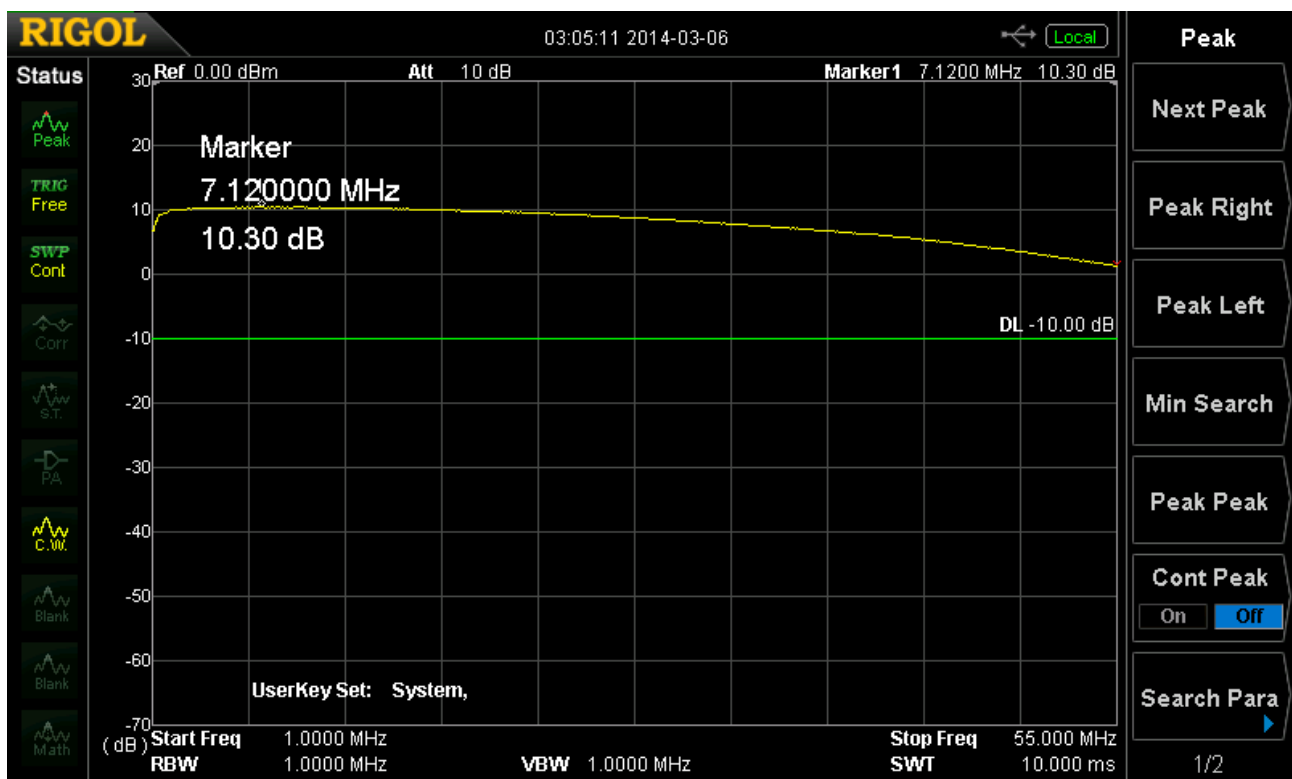
- Beverages
- Loops
- K9AY
- Flag
- 4 squares
- Dipole
- Long-Wire
- etc



160m gain

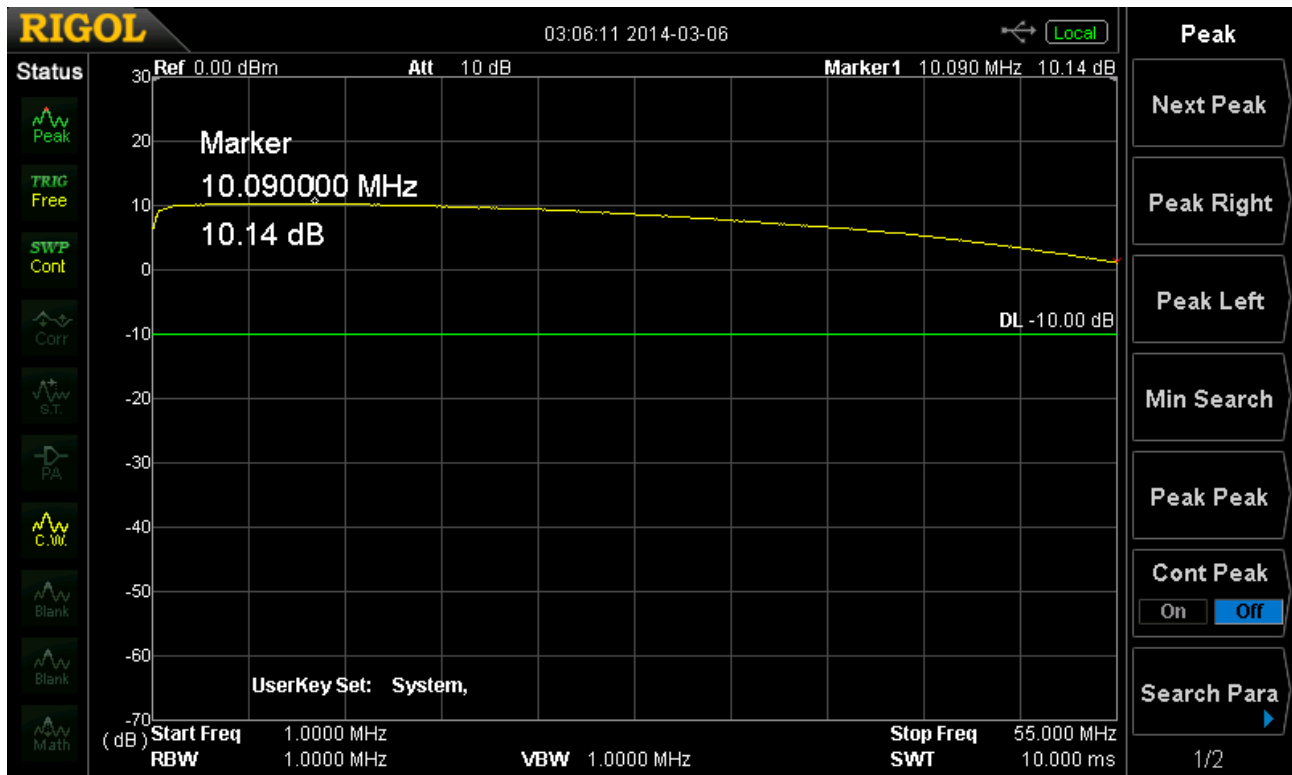


80m gain

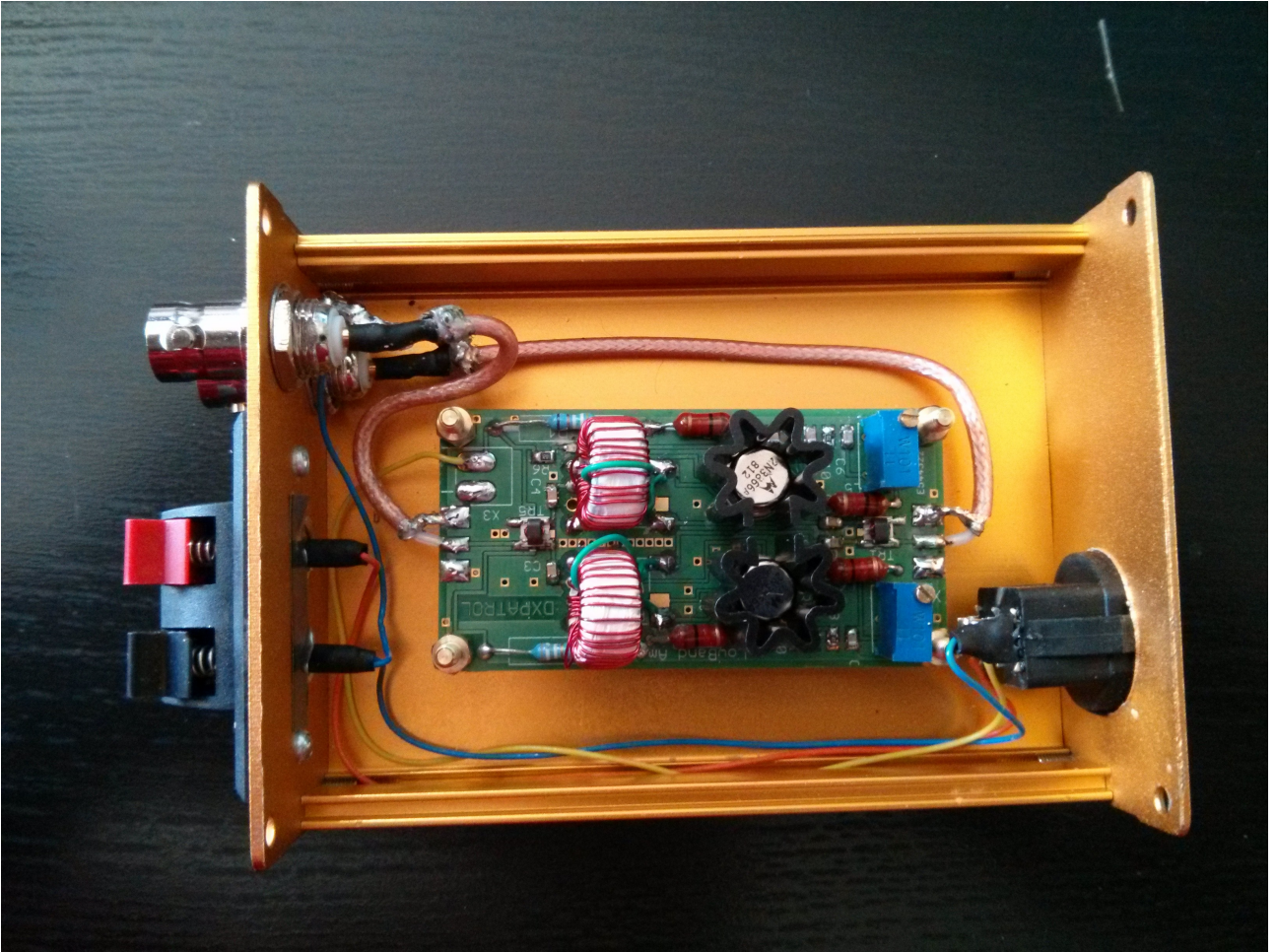


40m gain



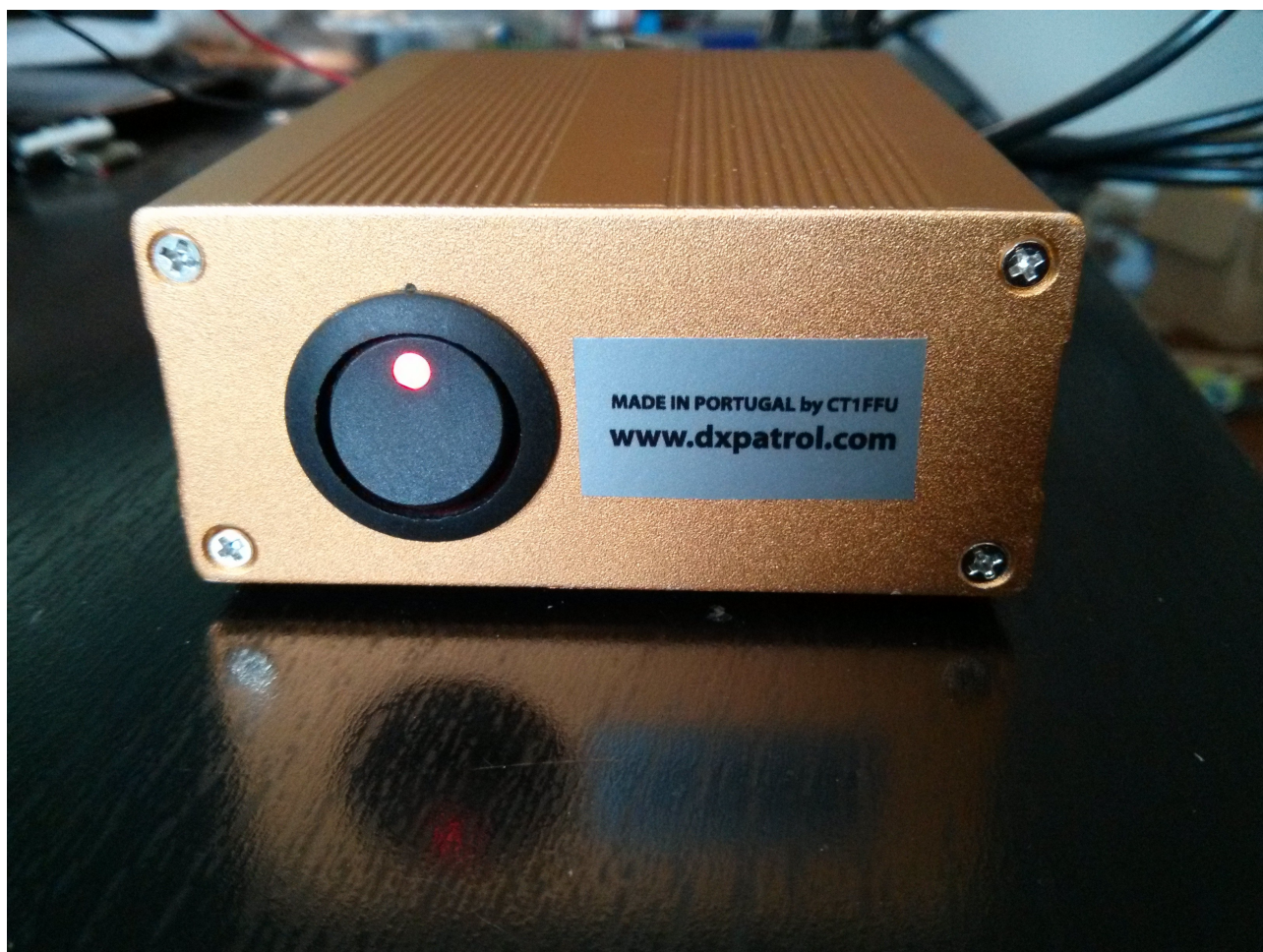


30m gain



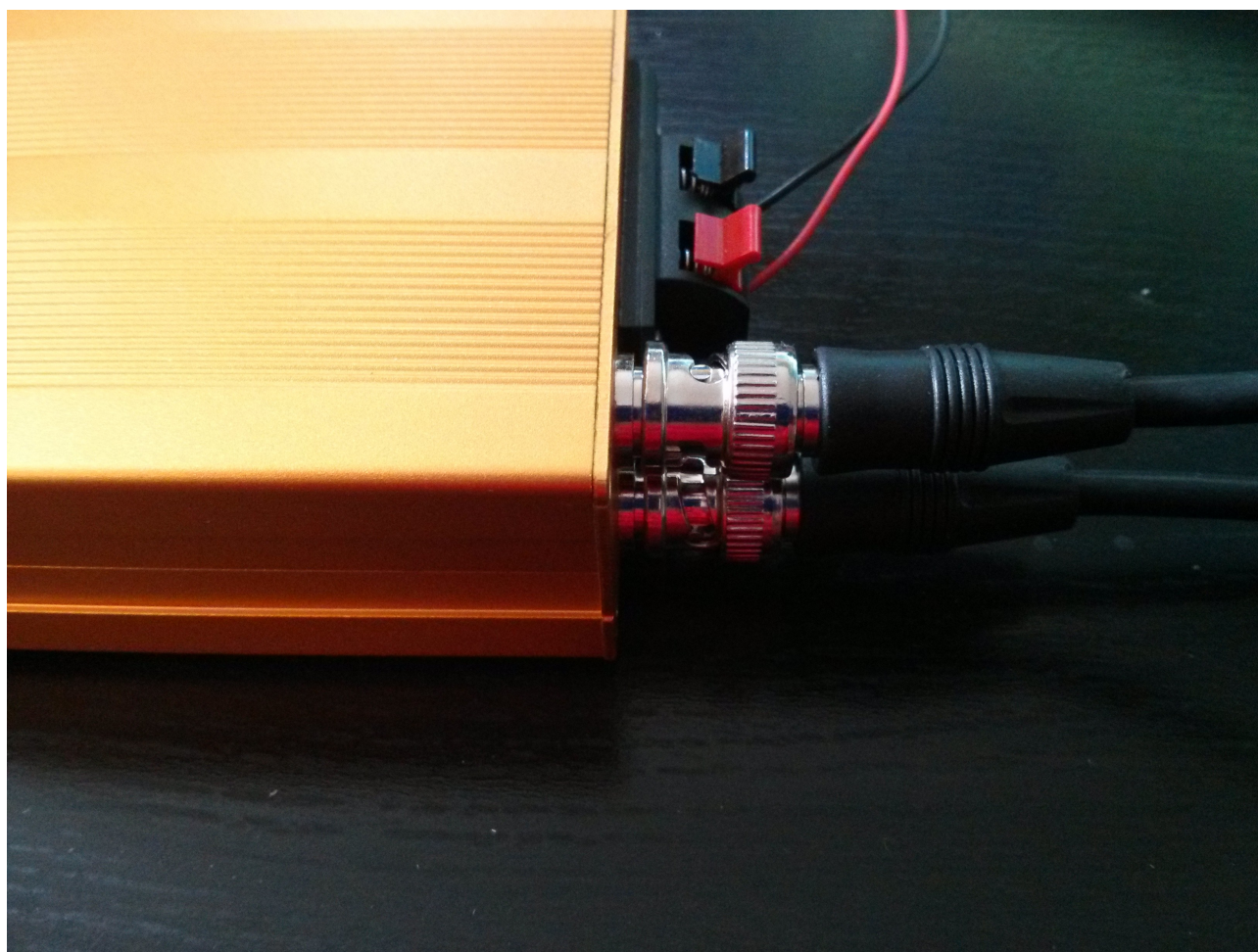
















Consume: 150mA  
Voltage input max: 14V  
Connectors : BNC  
Transistors: 2N3866A  
IN/OUT 1:1 transformers : minicircuits 50Ohms  
Balanced Transformers: Amidon FT50-43

Good luck and good DX

António Matias

[www.dxpathrol.pt](http://www.dxpathrol.pt) [www.ct1ffu.com](http://www.ct1ffu.com)

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