

External 25MHz reference on Starcom SR-320 LNB

How to fix external reference on low cost Starcom SR-320 single LNB.



STAR COM LNB SR-320 Best Signal digital HD Universal KU Band Single LNB waterproof High Gain Low noise satellite Dish LNB

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I bought this LNB on ALIEXPRESS @ Wisdom Electronic Mall. Store No.1952322

Conversion steps:



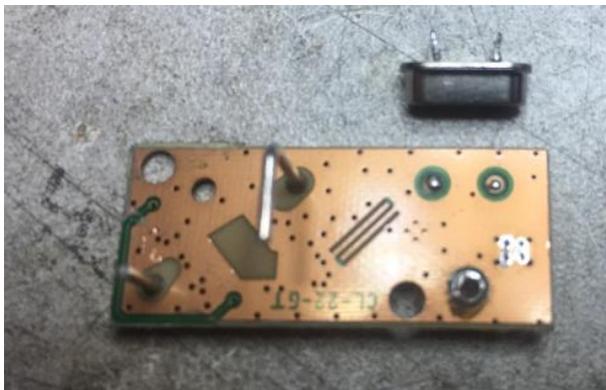
- Remove the plastic covers starting with the blue cap.



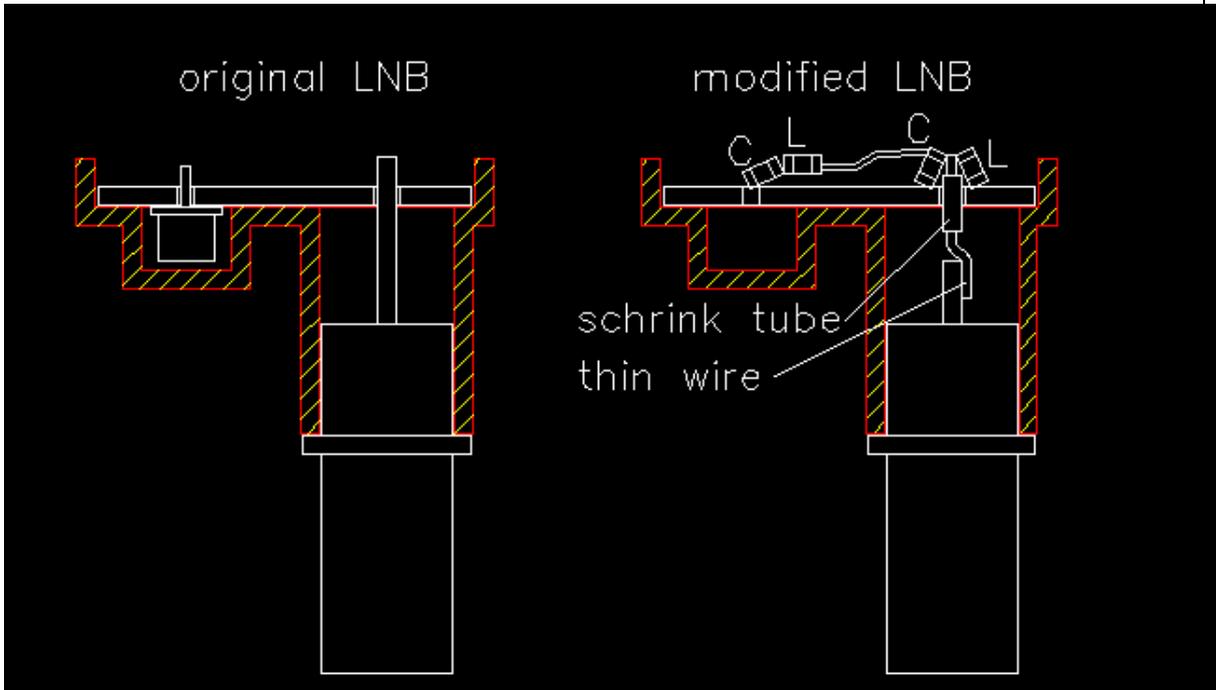
- Remove all sealant with a small screwdriver.
- Remove the 2 torx screws.
- Open the cover with a small screwdriver.



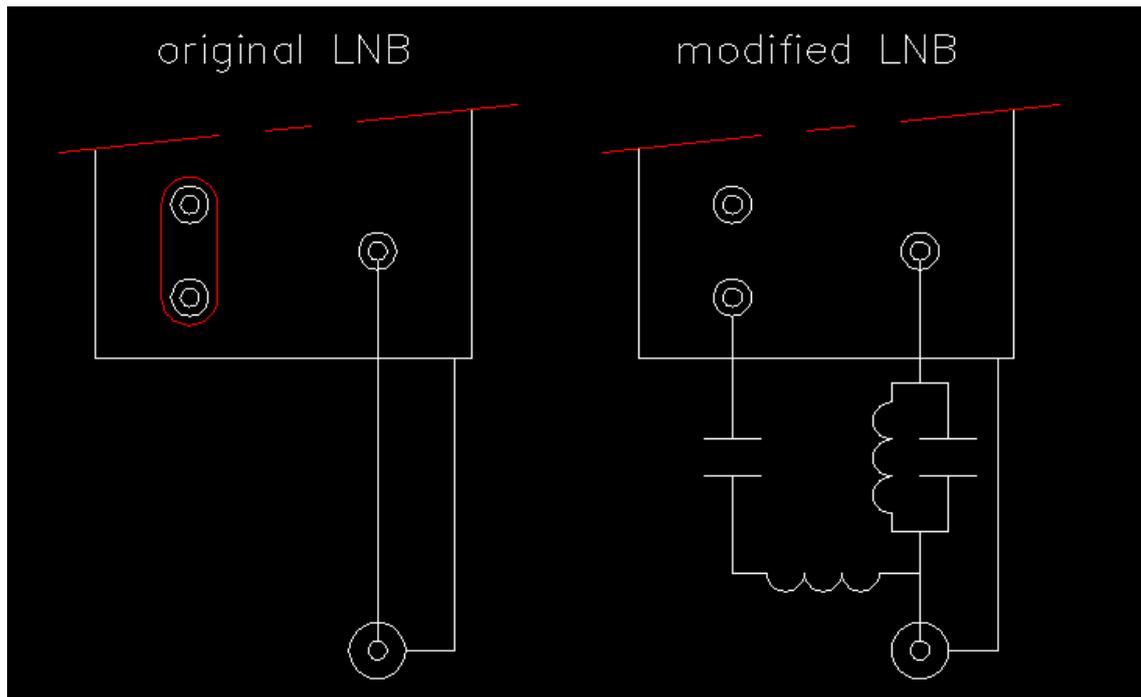
- Remove the PCB by de-soldering the centre pin of the connector.



- Remove the X-tal by de-soldering the leads.
- Screw out the connector and cut the centre pin to 3mm length.
- Solder a thin wire (from resistor) to the centre pin.
- Replace the connector.



Put the pcb in place again and isolate the centre pin from the pcb with some thin shrink tube. Cut the tube 1mm above the pcb and cut the thin centre pin 2mm above the pcb.



- The modification is made by adding a diplexer in the LNB. This diplexer blocks the 25MHz to the IF and blocks the IF to the X-tal pad. (25MHz path).
- Both capacitors are 120pF (SMD type)
- Both Inductors are 330nH (SMD type)
- On the top drawing you can see how to solder the parts in place.
- It takes some patience to make the modification! The parts are very small.



At the end it ends up like this! I put some paper tape underneath the series circuit the make soldering more easy. The parallel circuit is hardly visible around the centre pin.

Assemble all parts together in the reverse way as described above. The LNB is now ready to use.

The LNB locks between 24 and 26 MHz! You can use it direct to 430MHz. 73 PE1CKK