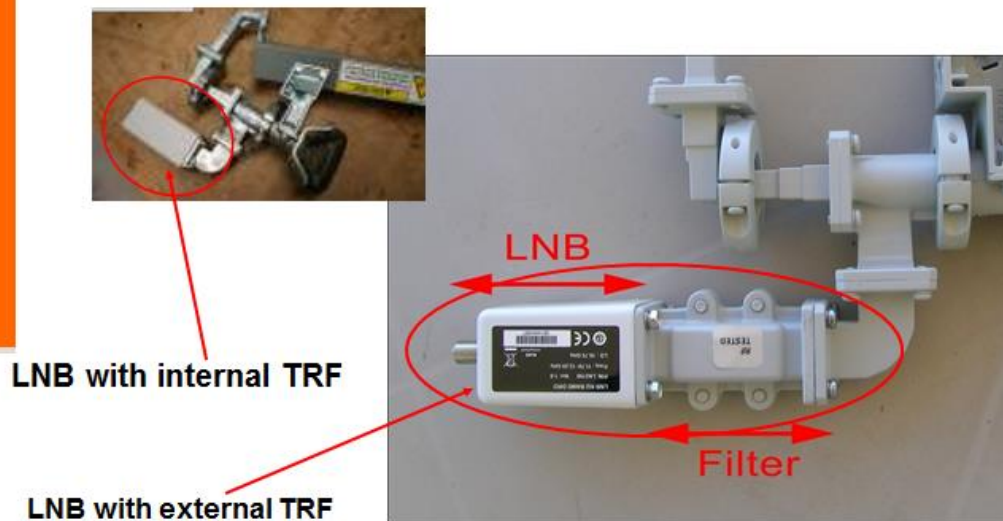


# Comparing the Two LNBS

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## Comparing the Two LNB Options

Some older StarBand equipment used an LNB model that did not have an internal Transmit Reject Filter (TRF). This meant that an external TRF was required. Later, they moved to LNB models that included an internal TRF.

In July, 2010, StarBand again began using a model without an internal TRF. The current model LNB is P/N LN2190. A separate TRF component will be included with the feedhorn assembly. You could receive either LNB model.

The TRF sits between the LNB and the feed horn assembly, as shown on the right, above. On the left, you can see an LNB with an internal TRF. This LNB is longer (3 1/4" long) than the LNB with an external TRF (2 1/2" long).

## Why Is a TRF Needed?

The purpose of the TRF is to prevent the energy coming from the transmitter, from interfering with the received signal that is down converted by the LNB.

Without a TRF, the modem will often experience problems with losing the **SYN** light on their modem, and possibly the **Rx** light as well.

If you use the longer LNB with an internal TRF and an external TRF, the received signal can be significantly weakened! In this case, you can remove the external TRF.