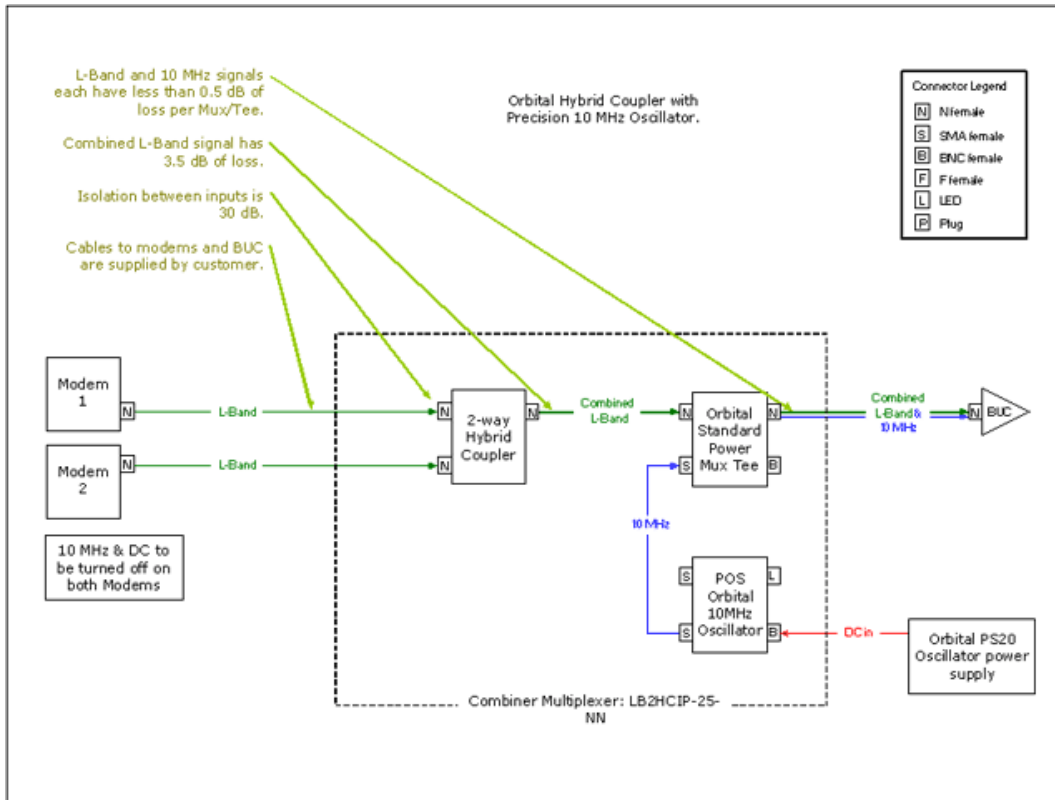


Hybrid Coupler with Precision Oscillator

Orbital 2-way Hybrid Coupler with 10 MHz Precision Oscillator

With the 10 MHz reference and DC turned off on a pair of modems, only the L-Band is passed to the 2-way combiner. An Orbital MOS (or a POS) provides the 10 MHz reference to the Orbital Mux/Tee that integrates the signals and inserts the DC power. The advantage of the hybrid coupler is the 30 dB of isolation between the inputs.



Signal Line Legend

- DC Power
- L-Band
- 10 MHz Reference

- ▣ Cables from Modem to Combiner and from Combiner to BUC, supplied by customer. All of jumpers supplied by Orbital.
- ▣ All modems need to have their DC turned off.
- ▣ The 10 MHz signal is provided by an Orbital standalone, 10 MHz Oscillator (MOS or POS).
- ▣ The Orbital Mux/Tee is required at the output of the Combiner to integrate the 10 MHz with the L-Band signal and DC power.

