



...Using a Master Oscillator...

... to Feed a Pair of High Power BUCs with the Combined Signal

In this case, the L-Band output of a pair of modems is combined with the 10 MHz signal from an Orbital Master Oscillator (MOS). Again, high power DC to the BUCs is inserted with a pair of Orbital Hi Power Mux Tees. Divide and conquer...

The 10 MHz signal comes from an Orbital MOS which already has two 10 MHz outputs (one for each Mux/Tee). This configuration is a lower cost than to use an Orbital Mux/Tee in reverse (to strip out the 10 MHz from the modem signal) and then an Orbital 10 MHz splitter to split that signal for both of the output Hi Power Mux/Tees.

The Orbital Hi Power Mux/Tees are required at the output of the Coupler to re-integrate the 10 MHz with the L-Band signal. So at no extra cost, the customer can insert the DC to power the BUC at this point eliminating the need to have an extra cable out to the BUC or to have power outside at the BUC.

Orbital modular designs permit easy access to each signal port for diagnostics, testing, and system maintenance. Modularity also permits easy re-configuration, expansion, and replacement at low incremental cost - the benefits of custom design, the low cost of mass production.

Remember that Orbital Combiners solve the problem of External Reference signals.

