Front End Issues

Paul Lilie

Front End Issues

- Ortho-Mode Transducers (“OMTs”)
- Solar Observing
- Receiver Schedule

Front End Issues: OMTs

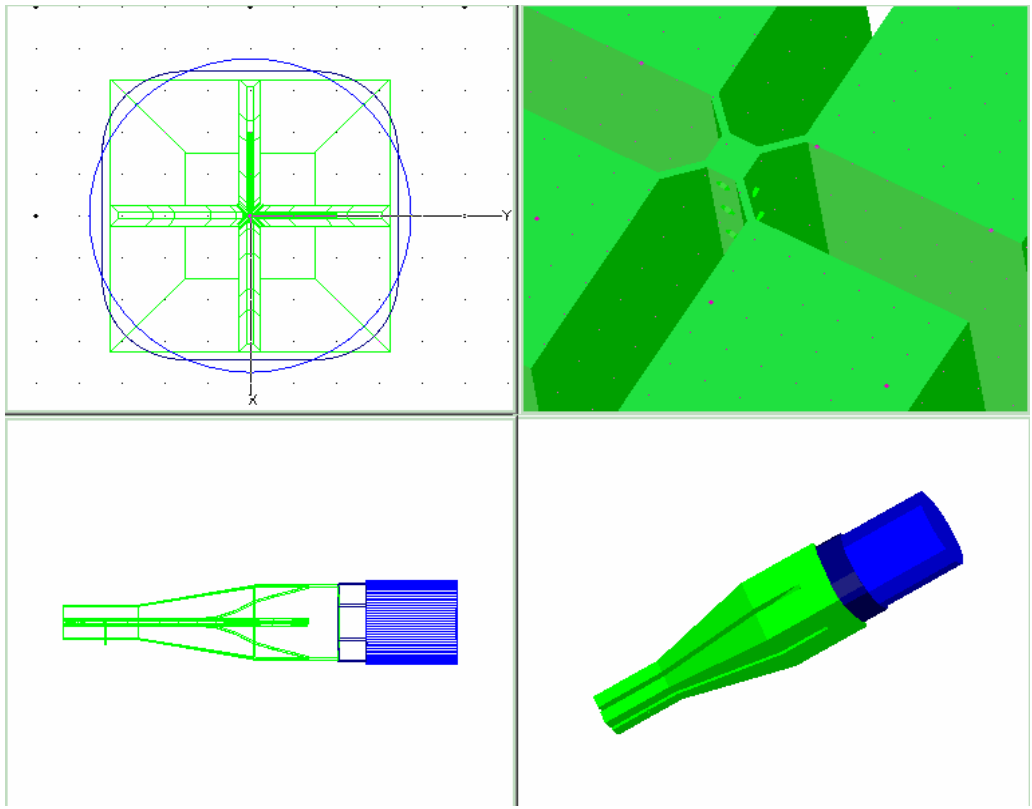
Octave Bandwidth Quad-Ridge OMT & 90° Hybrid for L, S, and C-bands

Four-Probe Design for X-band

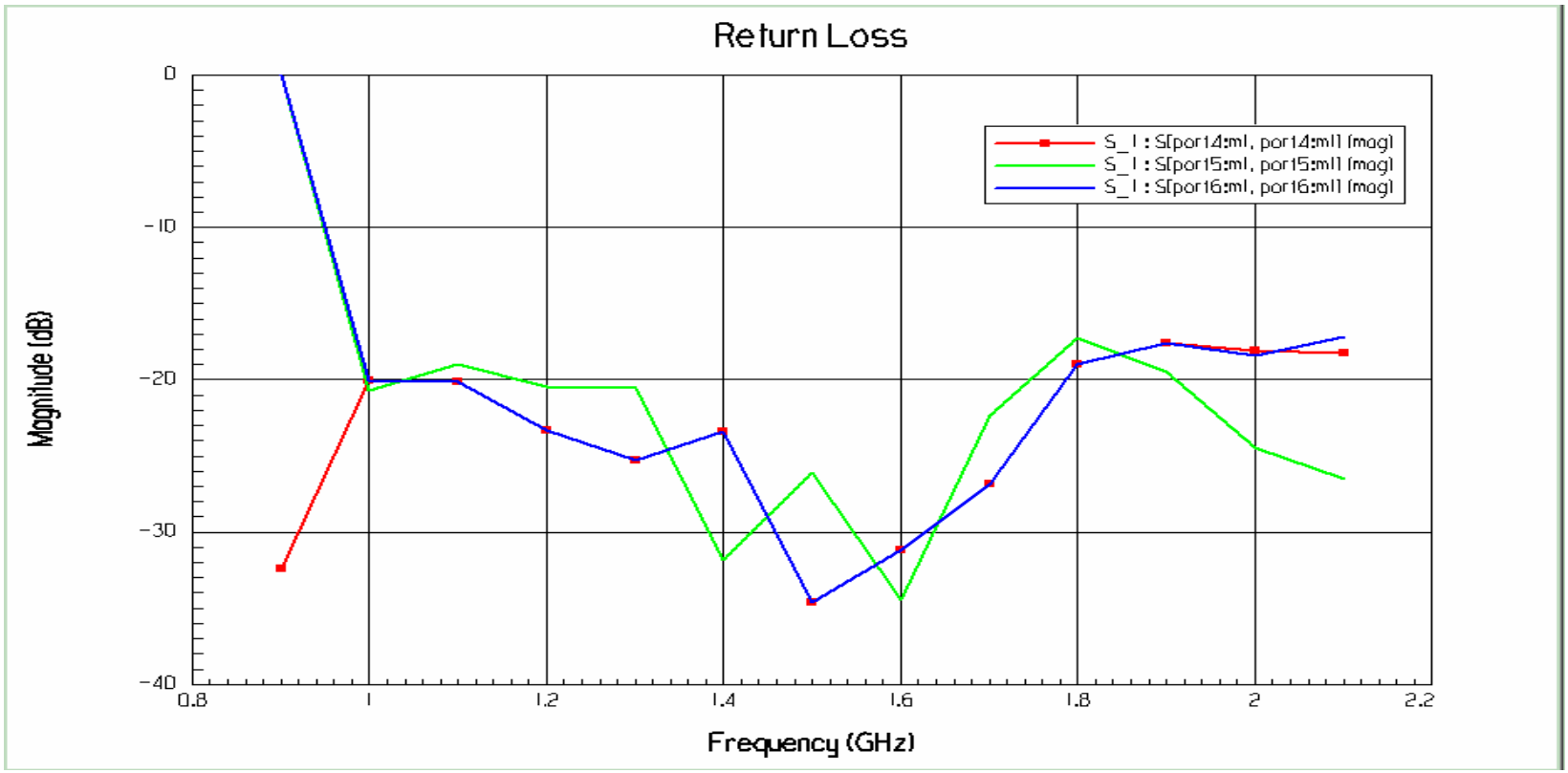
Boiföt OMT & Phase Shifter for Ku, K, Ka-bands

Sloping Septum for Q-band

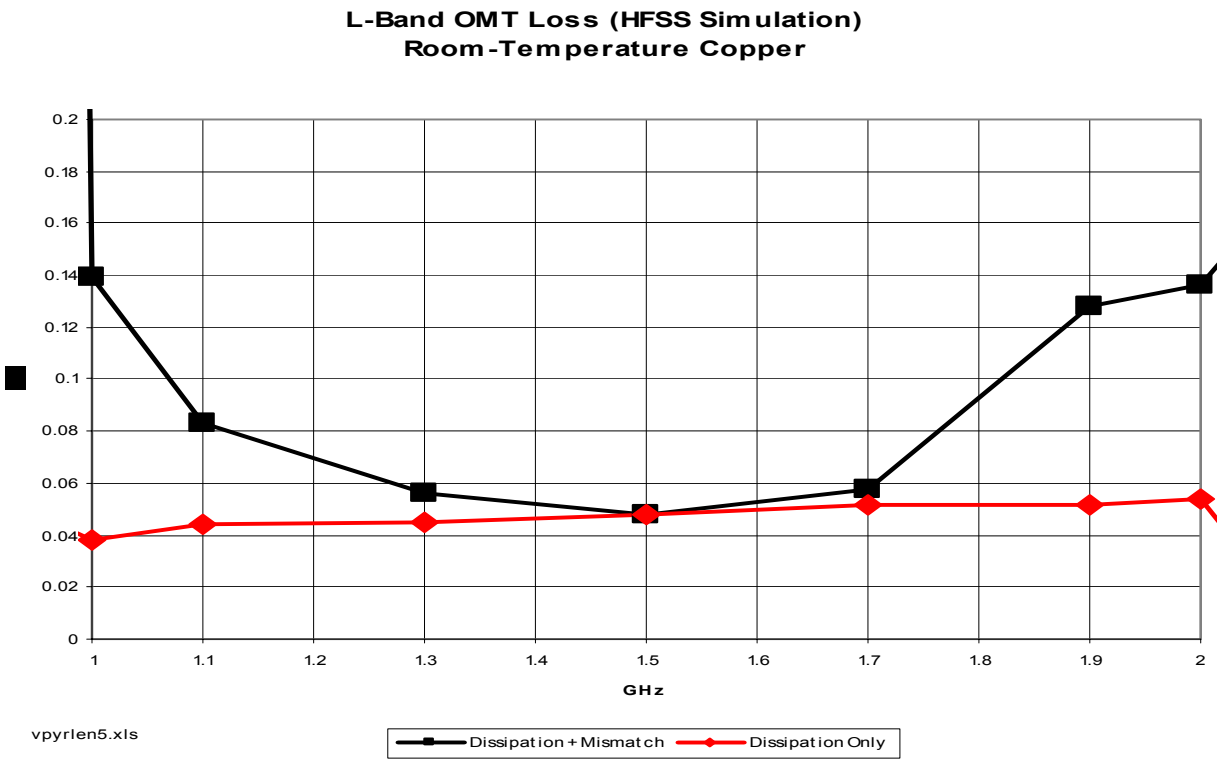
Quad-Ridge OMT HFSS Model



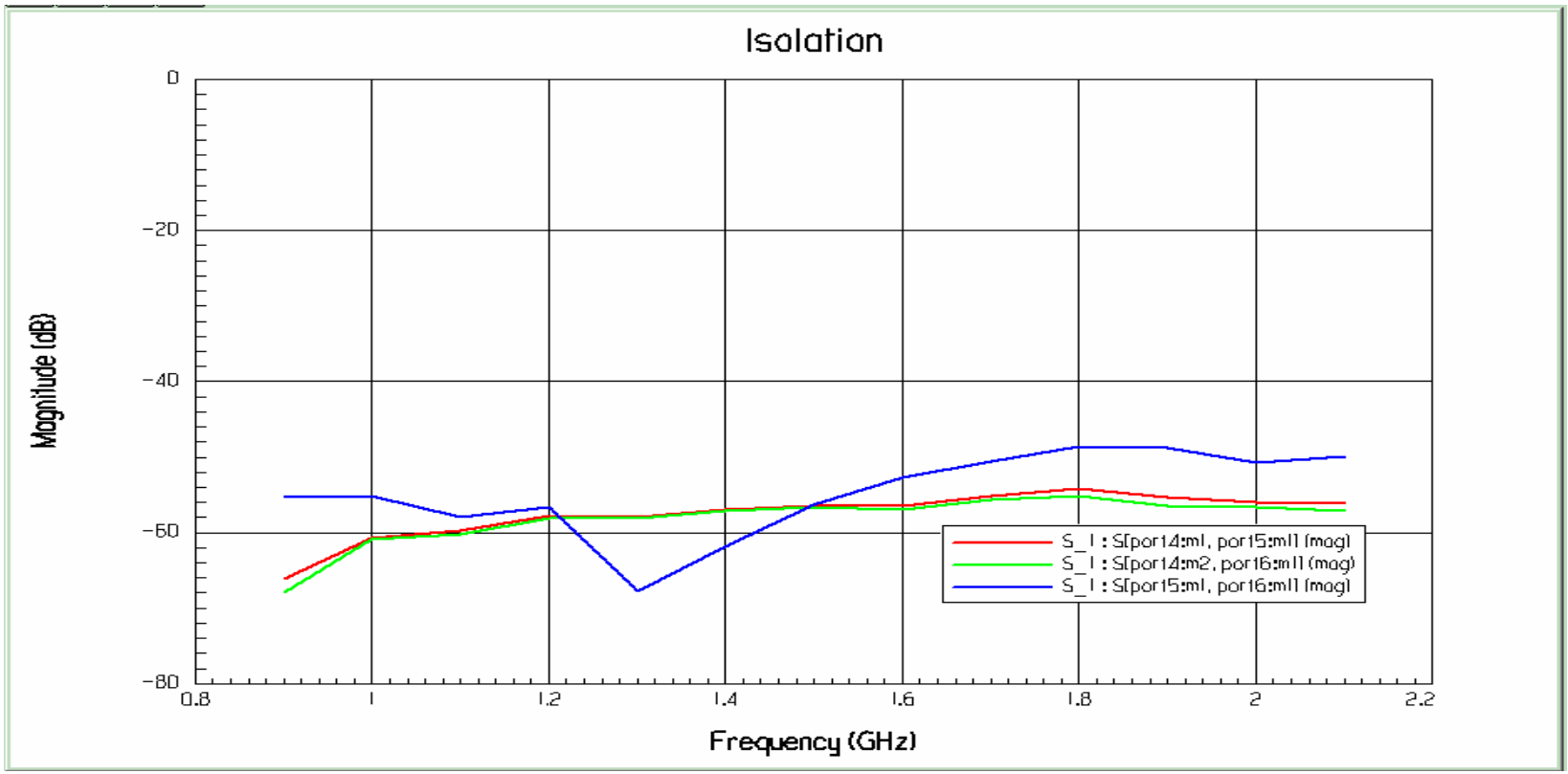
Quad-Ridge OMT Simulation



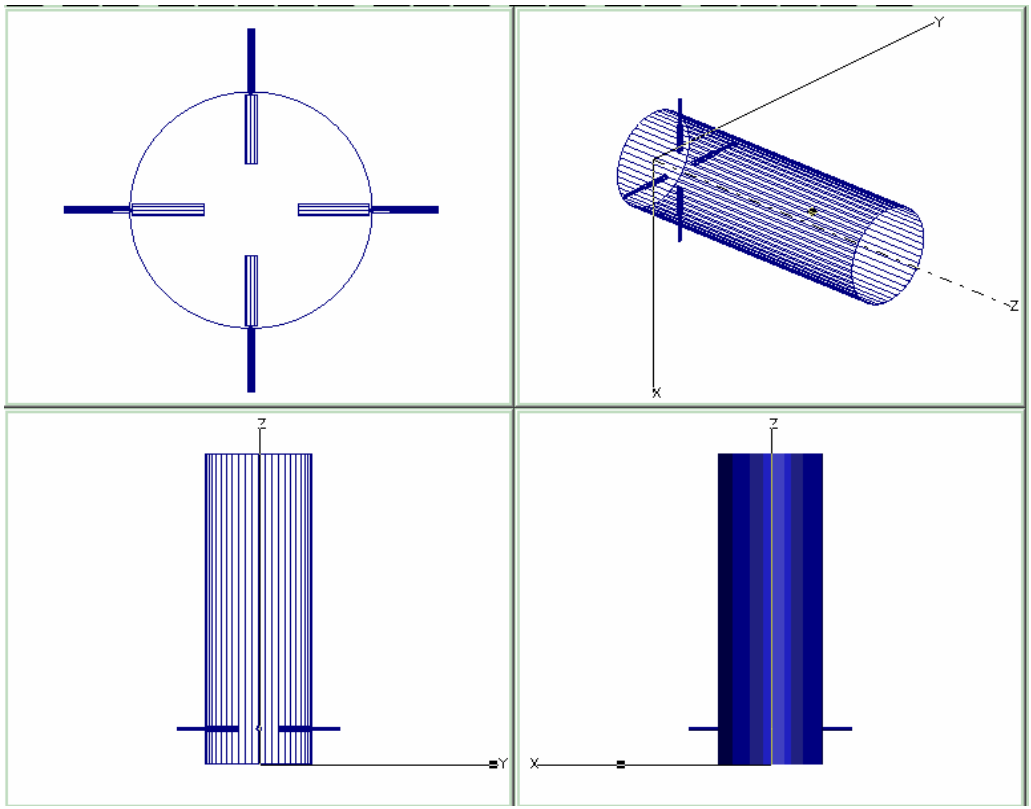
Quad-Ridge OMT Simulation



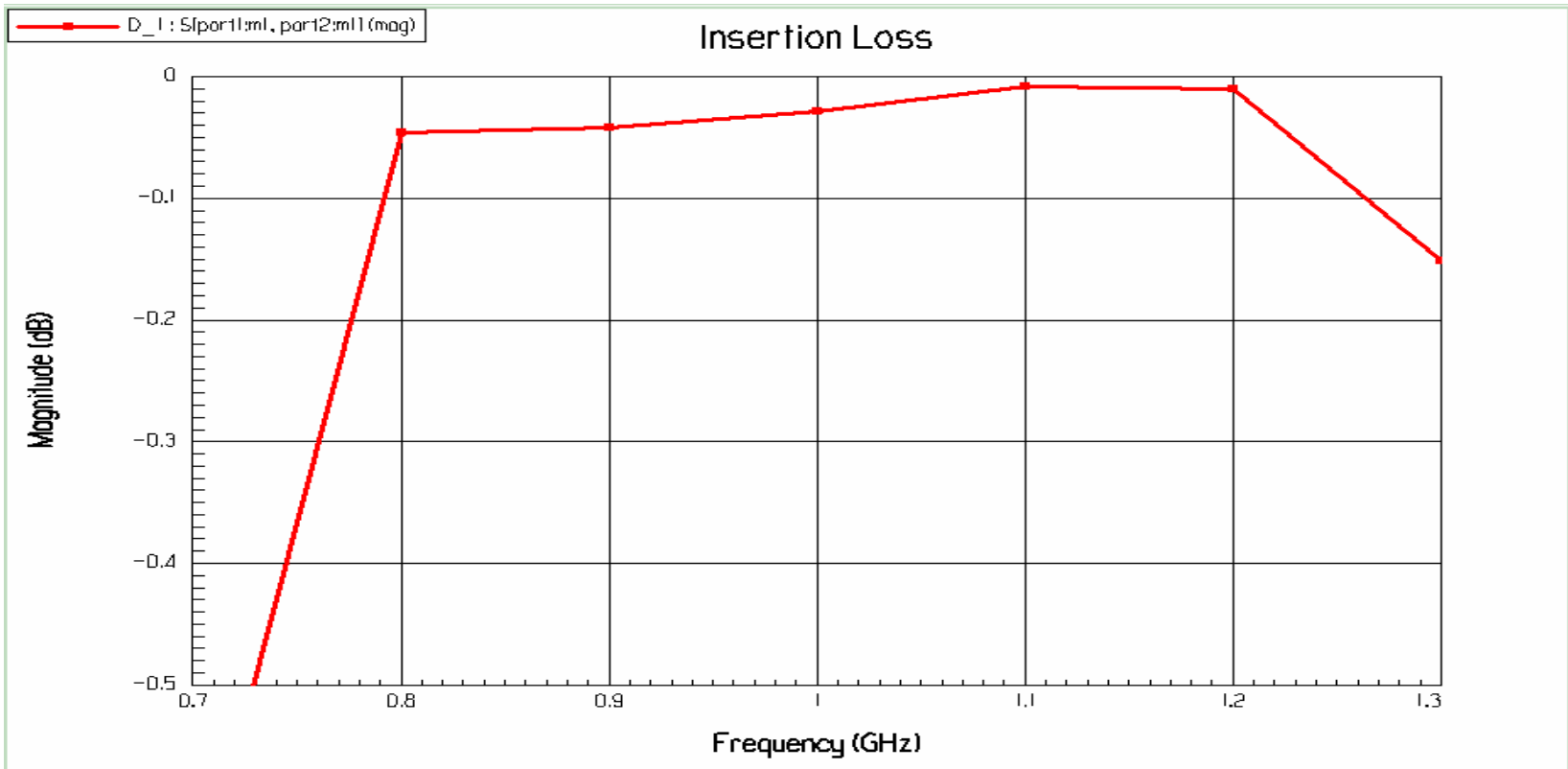
Quad-Ridge OMT Simulation



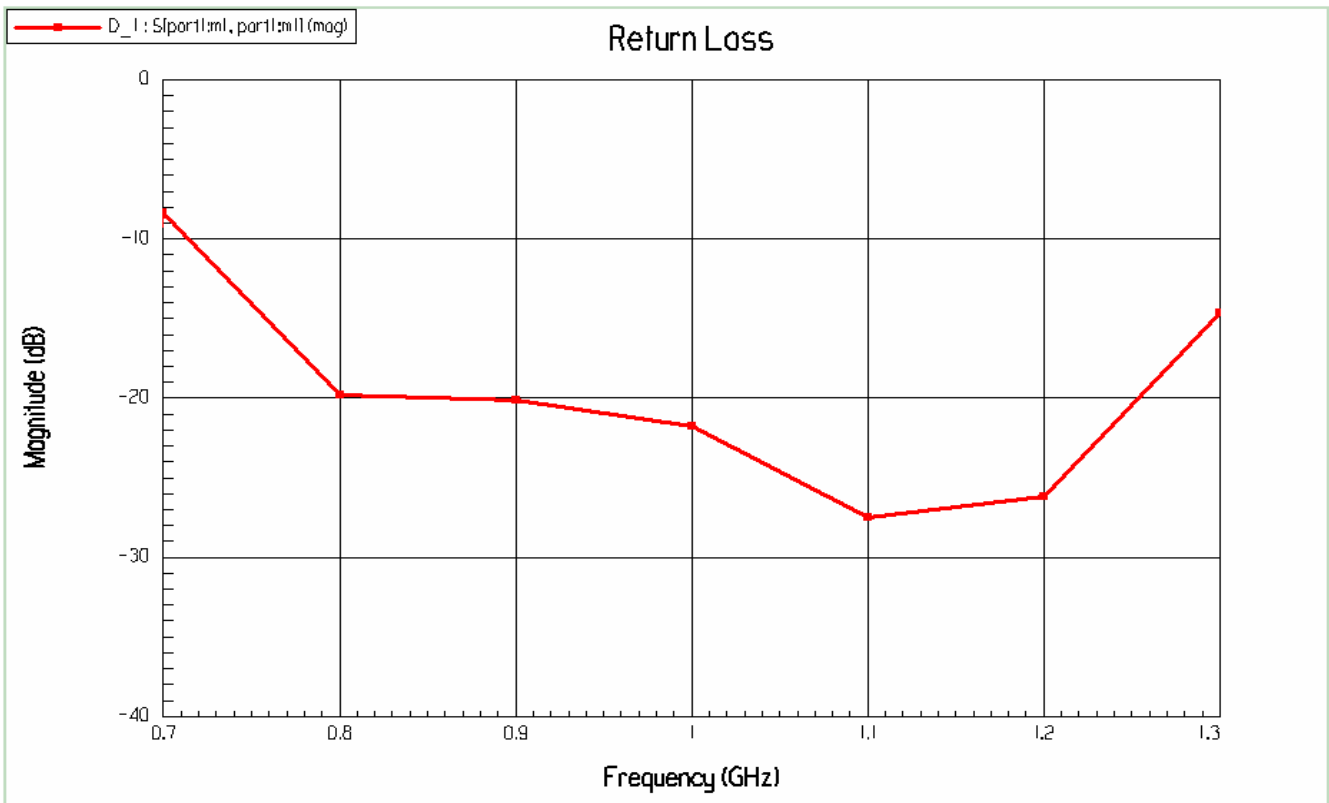
4-Probe OMT HFSS Model



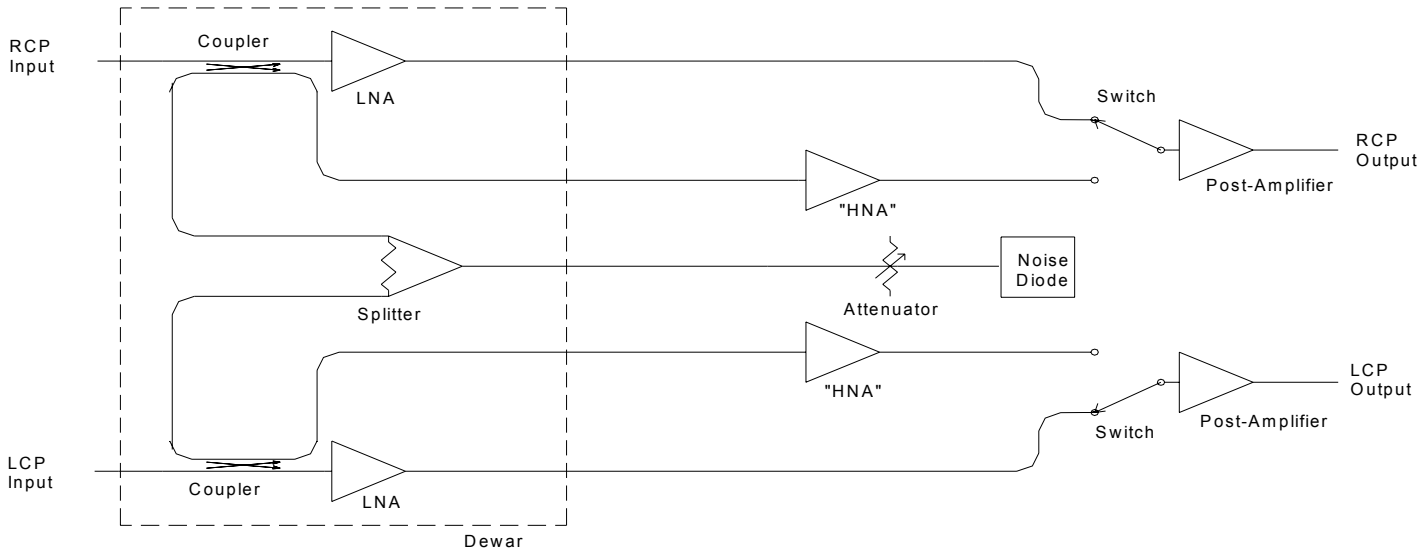
4-Probe OMT Simulation



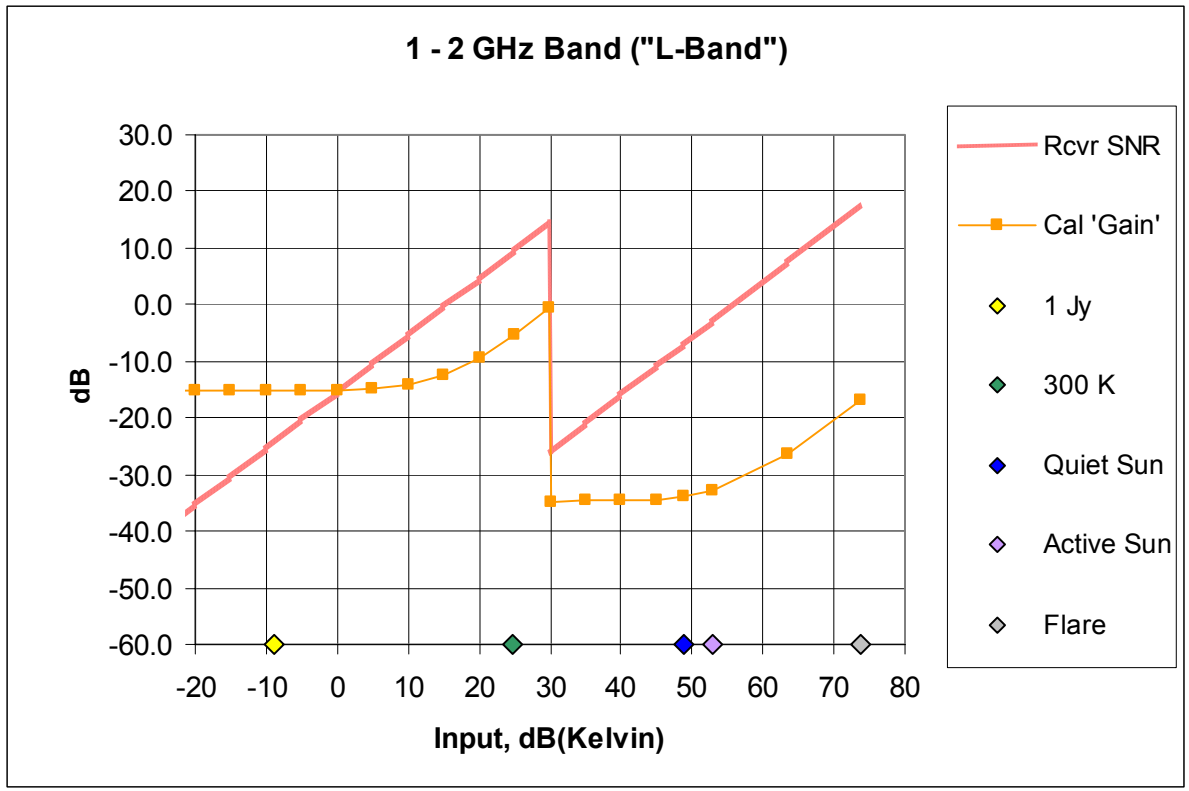
4-Probe OMT Simulation



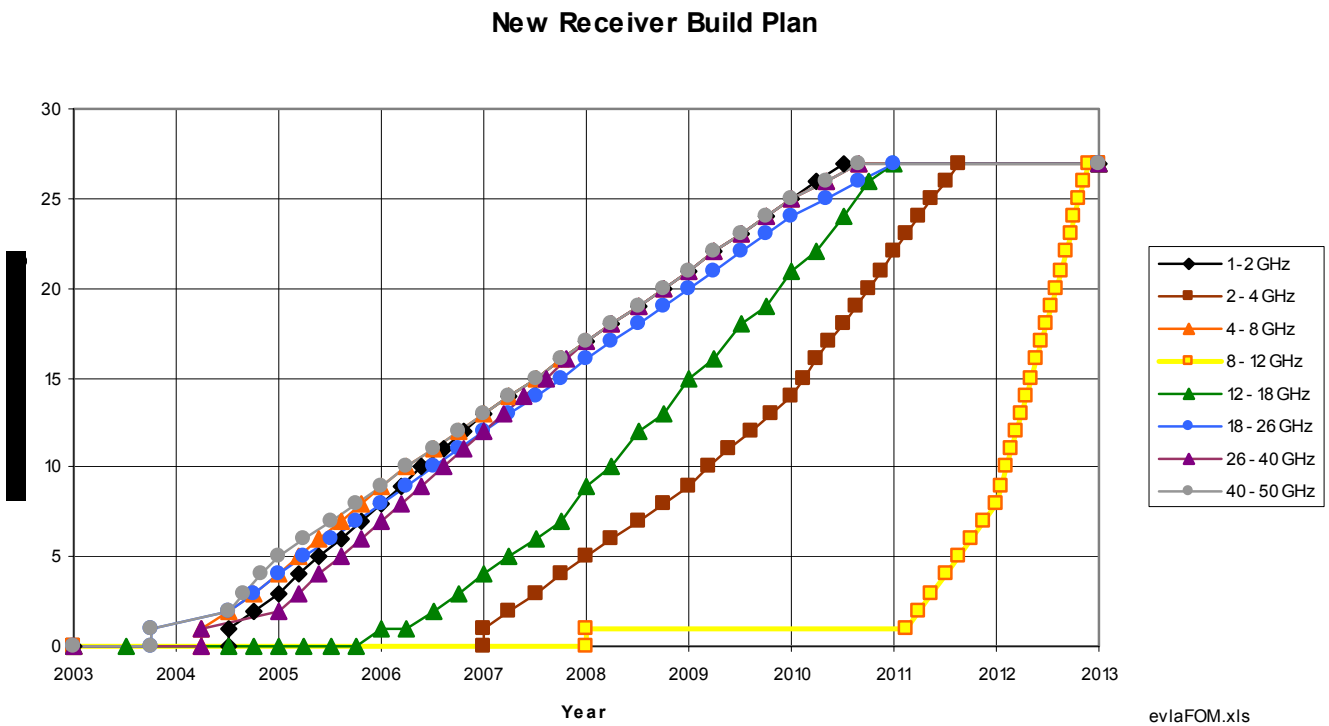
Solar Observing "Coupler-Fed"



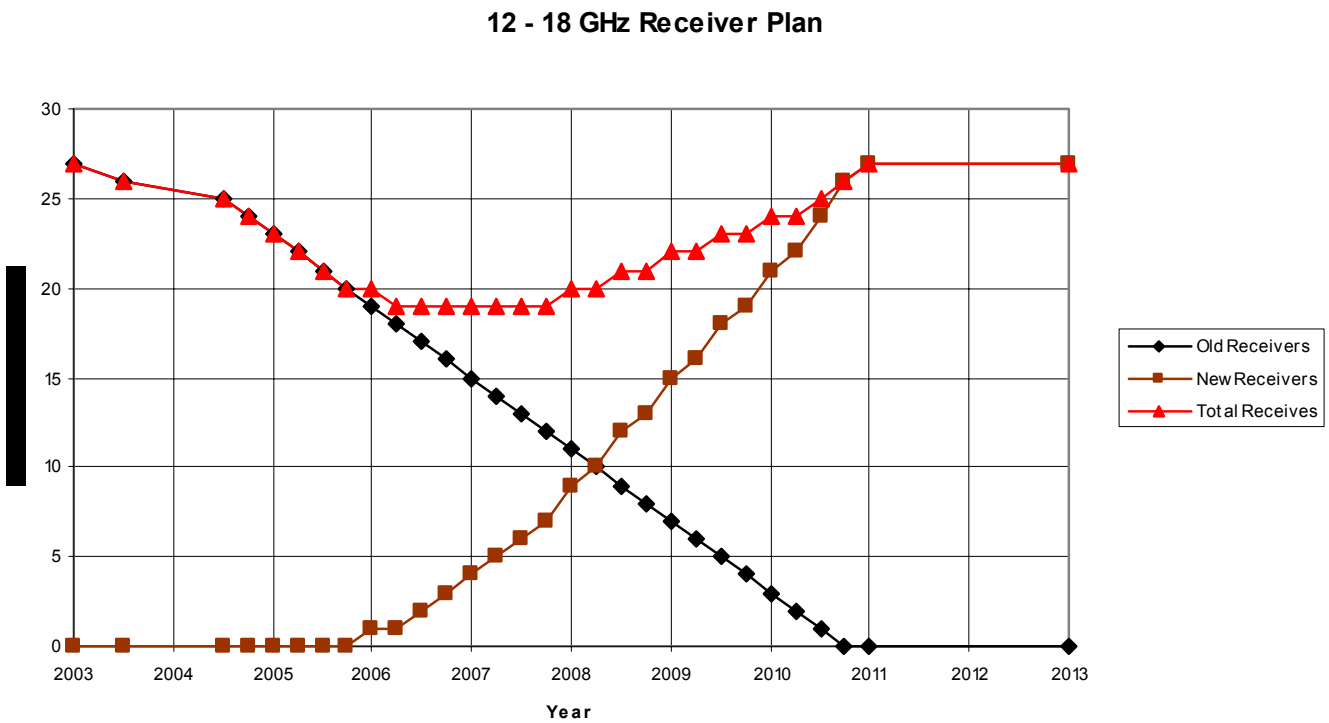
Solar Observing Signal/Noise Ratio



Receiver Schedule



Receiver Schedule
Ku-Band



Receiver Schedule