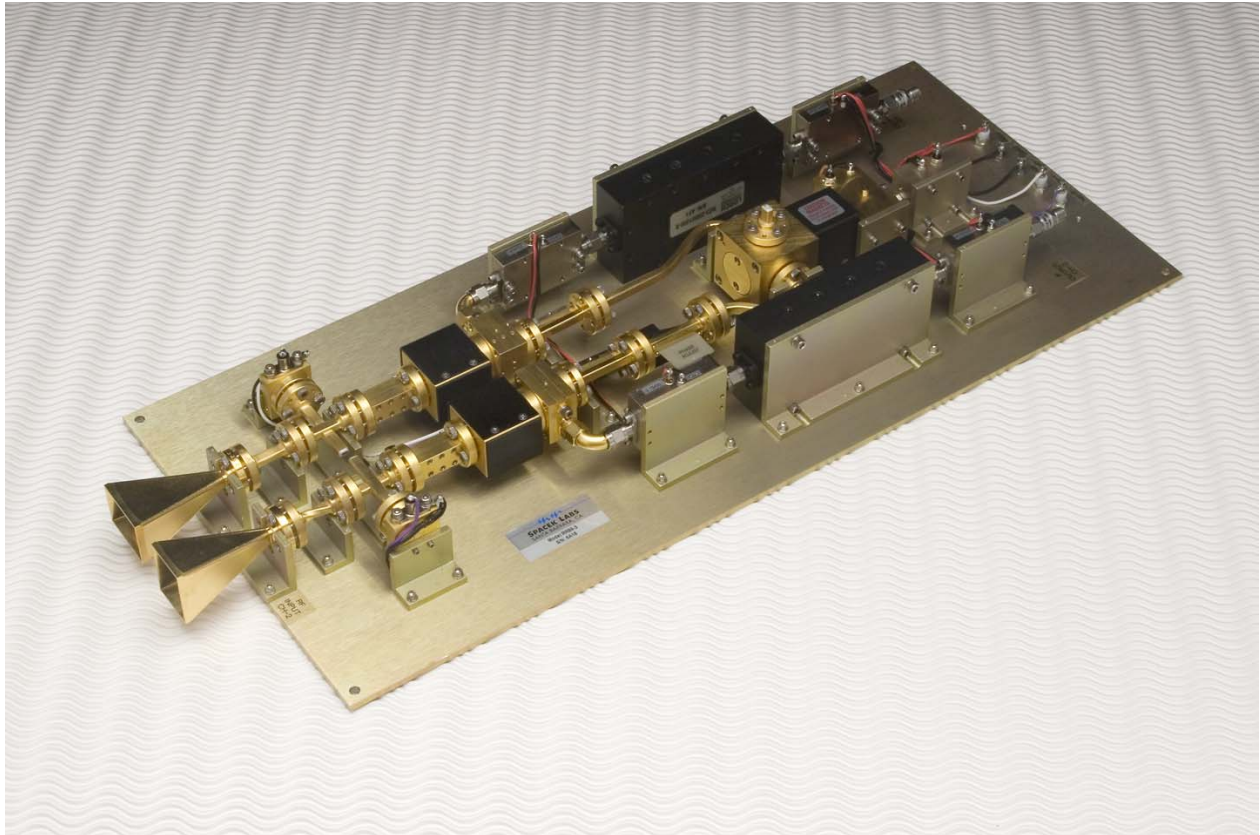


Two Channel Radiometer Front End



Two channel radiometer front end, Model RR89-1, is configured with two orthogonal receive channels covering 88 to 90 GHz input. A single 89 GHz Gunn oscillator drives the LO for the mixers in both channels. Using a noise generator, approximately 120° K excess noise temperatures is injected into the mixer at each channel through a 20 dB cross-guide coupler. A 20 dB of isolation is achieved between the coupler and mixer using an isolator. The IF output spans 40 to 1000 MHz with 50 dB of gain and a DSB noise figure of 6.5 dB typical, 7.5 dB maximum. Bias voltage is +12 VDC @ 1A typical.

Product Release