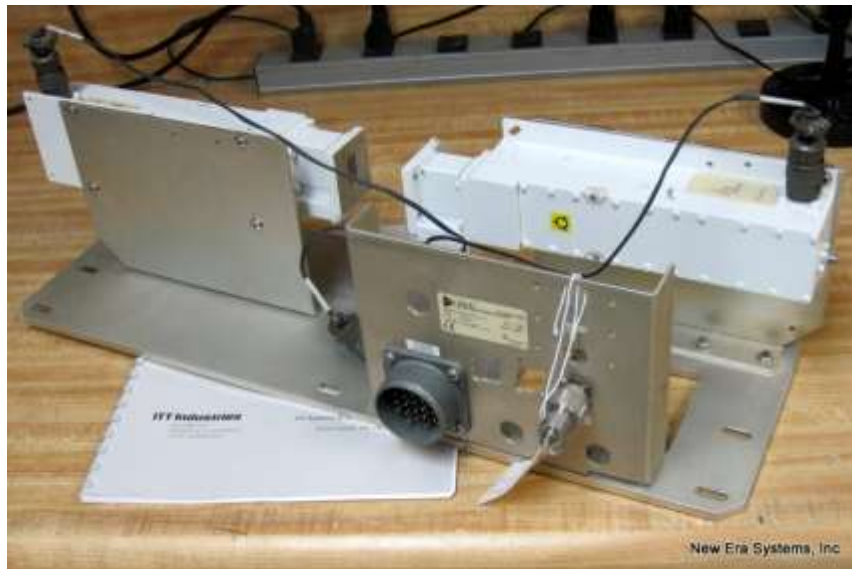


## Locus KU-Band LNA Plate



<b>MODEL</b>	Locus RF-2130-100-60
<b>PART NO</b>	
<b>DESCRIPTION</b>	1:1 LNA Redundancy Plate
<b>FREQUENCY</b>	

## 2 Plate Components

This section contains general information pertaining to standard system components and some options. Figures 2-1 and 2-2 show block diagrams of 1:1 and 1:2 systems, respectively. The figures show the location of the standard and optional equipment. Refer to Section 4, Appendix, for system outline drawings.

Diagram 2-1: LNAK 1:1 block diagram. (Options shown in dashed blocks.)

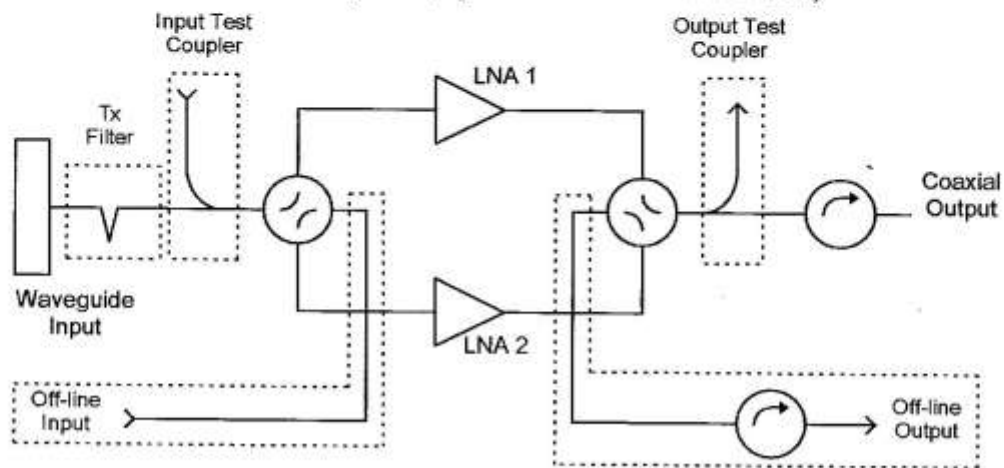
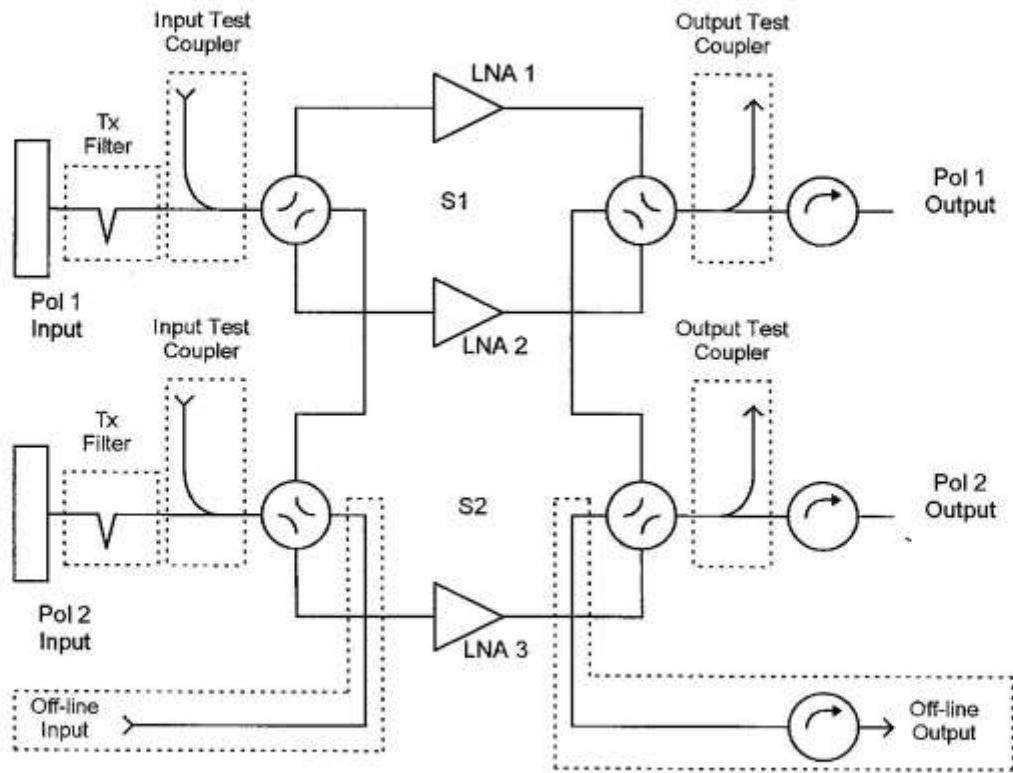


Figure 2-2: LNAK 1:2 block diagram. (Options shown in dashed blocks.)



## 2.1 Waveguide/Coaxial Switch (standard)

The LNAK-1100 contains one dual waveguide/coaxial switch and the LNAK-1200 contains two dual waveguide/coaxial switches connected by a section of straight waveguide. If two switches are present, they will have labels indicating whether they are switch 1 (S1) or switch 2 (S2). Switch 1 is connected to polarization 1 and switch 2 is connected to polarization 2.

## **2.2 LNAs (standard)**

The LNAK-1100 contains two amplifiers and the LNAK-1200 contains three amplifiers. The amplifiers are labeled as: LNA 1, LNA 2, and LNA 3. In both the LNAK-1100 and LNAK-1200, LNA 2 is designated as the default standby amplifier.

## **2.3 Input Filter (optional)**

Waveguide Tx filters can be provided as a system option. The filter(s), located on the system input, pass the receive frequency band and provide rejection in the transmit portion of the band. Due to the associated loss of these filters, the system noise temperature increases. Refer to the Specification Sheets for the LNAK-1100/1200 LNA systems to determine the increase in system noise temperature when the filter(s) are required.

## **2.4 Input Coupler (optional)**

This option provides an input for test signal injection into the on-line amplifier. The 30 dB or 40 dB coupled input is through an SMA female connector. Calibration data for the coupler is provided on the coupler itself. Due to the associated insertion loss, the system noise temperature increases. Refer to the Specification Sheets for the LNAK-1100/1200 LNA systems to determine the increase in system noise temperature when Input Couplers are required.