Radio Astronomy Supplies 6.6 GHz Methanol Converter System

System Setup and Operation

Rev A - 2003

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Setup and Description

The Methanol Converter System consists of the following:

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- Feedhorn
- LNA
- Converter

Feedhorn - The Feedhorn is a simple waveguide with an N type connector and monopole. The feedhorn is connected directly to the LNA.

LNA - The LNA (Low Noise Amplifier) is a state-of-the-art, low noise figure amplifier. This module amplifies the 6.6 GHz signal and routes it to the converter. Power requirements for this module: +12Vdc @ 100ma.

Converter - The Converter module receives the signal from the LNA and down-converts from 6.6 GHz to 1420 MHz. This module also functions as a low noise and gain stage. The 1420 MHz IF signal is connected to the SpectraCyber System, as indicated in the block diagram. Power requirements for this module: +12.5Vdc @ 200ma.

Note: The LNA should be attached directly to the feedhorn and, the converter at the base of the antenna Bash and have should be should b

