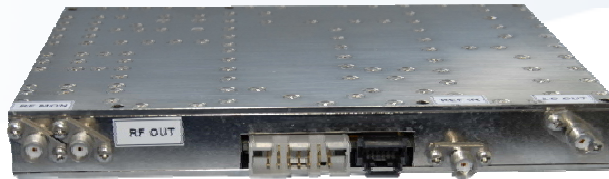


LNMFS Frequency Synthesizer

LNMFS-1079



FREQUENCY RANGE:
12.72-14.84 GHz

FEATURES

- Very Low Phase Noise, 20 dB better than IESS-308
- Low Spurious:<-85 dBc
- 1 KHz and 125 KHz Standard Steps Size Options
- Includes Fixed Frequency L-Band Output
- Serial Control Simplifies Interfacing
- Compact Modular Construction: 7.7" X 5.5" X 0.73"
- Low DC Power Consumption, less than 8 watts
- Wide Operating Temperature Range
- Meets ESTI 300019-1-4 Shock and Vibration Requirements

APPLICATIONS

- LO for Fixed and Mobile SATCOM Converters
- LO for Digital Radio, up to 512 QAM
- Instrumentation
- OEM Products

GENERAL DESCRIPTION

The LNMFS family of modular sub-octave coverage frequency synthesizers achieves exceptionally low phase noise in a rugged, compact package. Within the LNMFS, basic PLL indirect synthesizer architecture is enhanced using DDS and FPGA technology. This allows small step size and low spurious output levels to be achieved with moderate switching speed. The serial interface simplifies designing the synthesizer for any system application.

