

DEM LPLNA

Low Power RF Switching LNA

The DEM LPLNA is a Low power single band TR switching LNA. **It is not a "RF Sensed Switched LNA"** It was developed to be utilized with many of today's standard transceivers that operate on any band, 6M - 23 cm with a internal LNA switching function that supplies the +DC voltage through the coax. But the LPLNA may also be provided with a +DC



feed thru connection to allow connecting to your sequenced system for transceivers that do not have their own LNA control function. It is an ideal LNA for any type of weak signal work including satellite operation utilizing any standard transceiver power level in the VHF/UHF region.

Each LPLNA is manufactured with our newly designed NBLNA design utilizing SAW filter technology (the 6M version utilizes a two pole helical filter) and is optimized for the desired band of use. With its high 3rd order intercept and band pass filtering, it makes this an ideal LNA for any environment.

The DEM LPLNA may be placed anywhere within your system but is constructed in a weather proof enclosure allowing the direct connection to your terrestrial or satellite antenna utilizing its optional mast or antenna mounting brackets. Connector options are Type N, SMA, BNC, male or female and can be mixed and matched in any configuration.

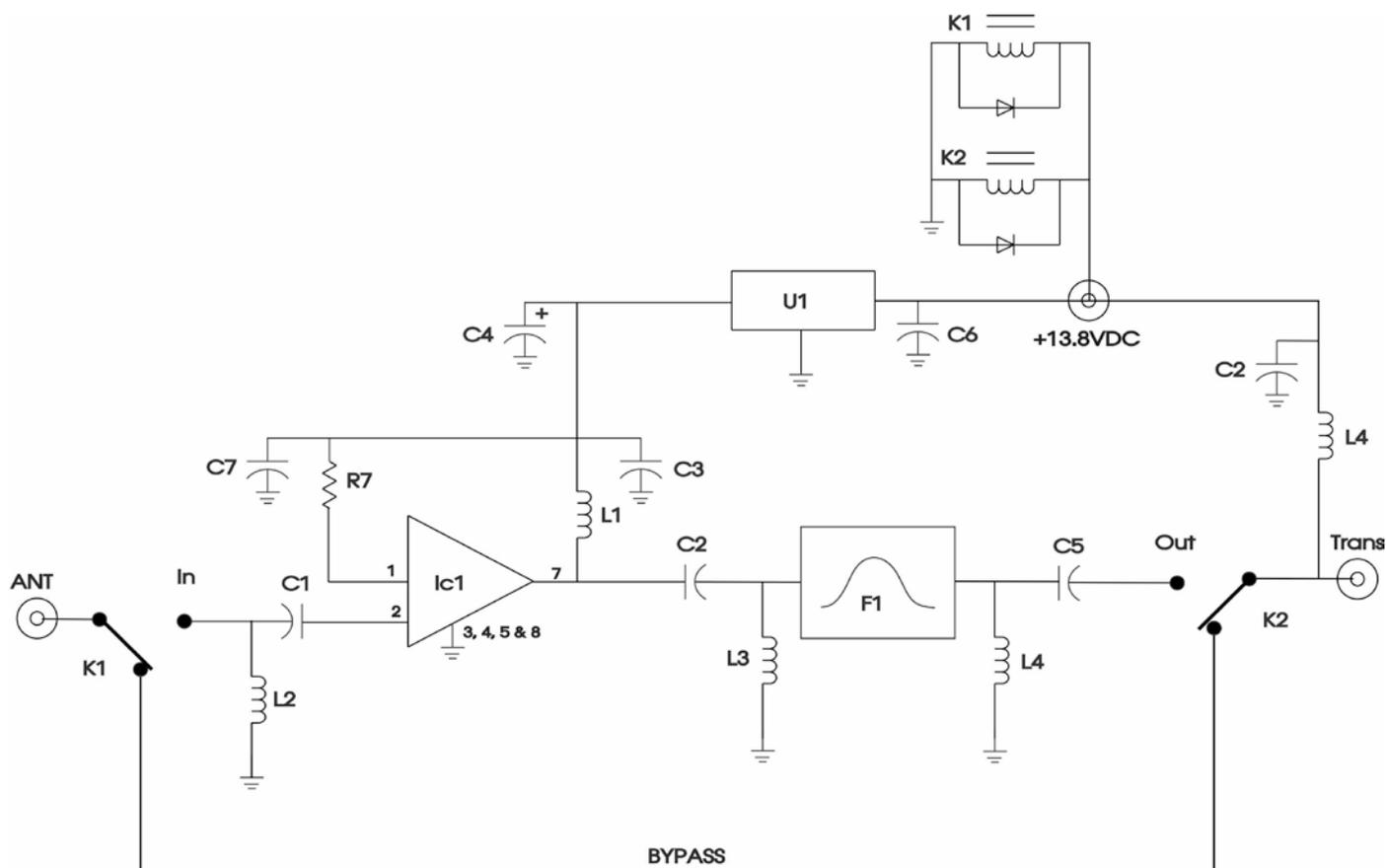
+DC is applied for receive only and simplifies sequencing. To bypass the LNA, remove DC power and you can operate at the full TX power specified below. This also provides a bypass of the LNA when the station DC power is shut down

Maximum Transmit Power with VSWR < 1.35:1

6M and 2M, 150 Watts
1.25M and 70CM, 100 watts
33 and 23 cm, 50 watts

Operational Voltage and Current:

+11- 17 VDC @ 150 mA



LPLNA SCHEMATIC

Schematic shows relay in TX position, DC removed. K1 and K2 relays activated during RX.



**LPLNA shown with optional Mast Mount Brackets.
Fits 1-1/2" to 2" U-bolts (not included).**