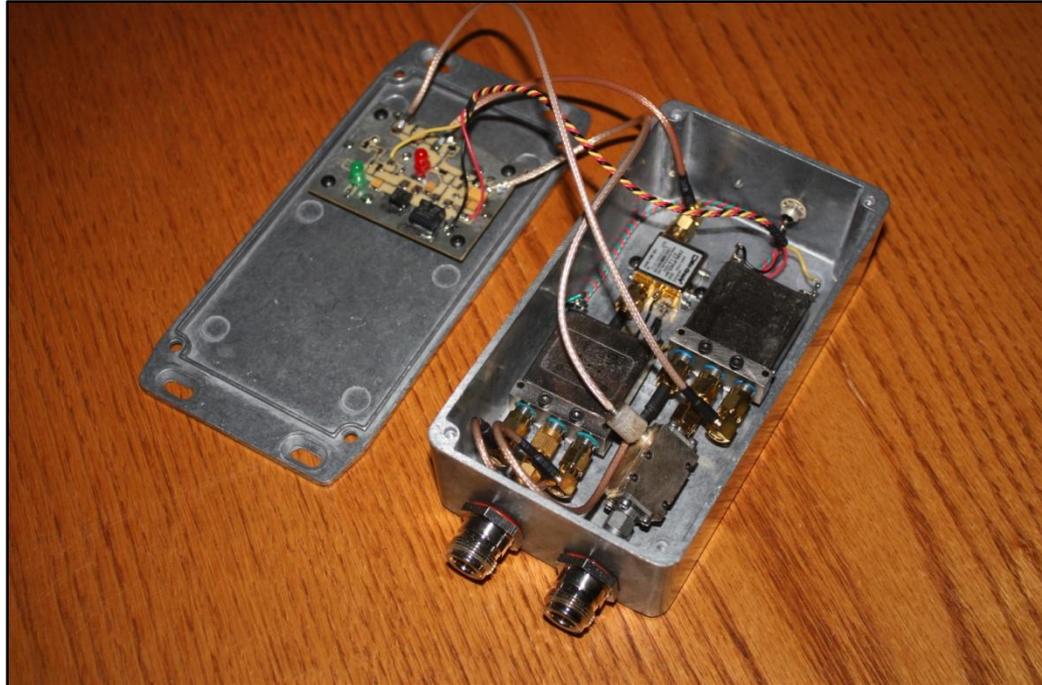
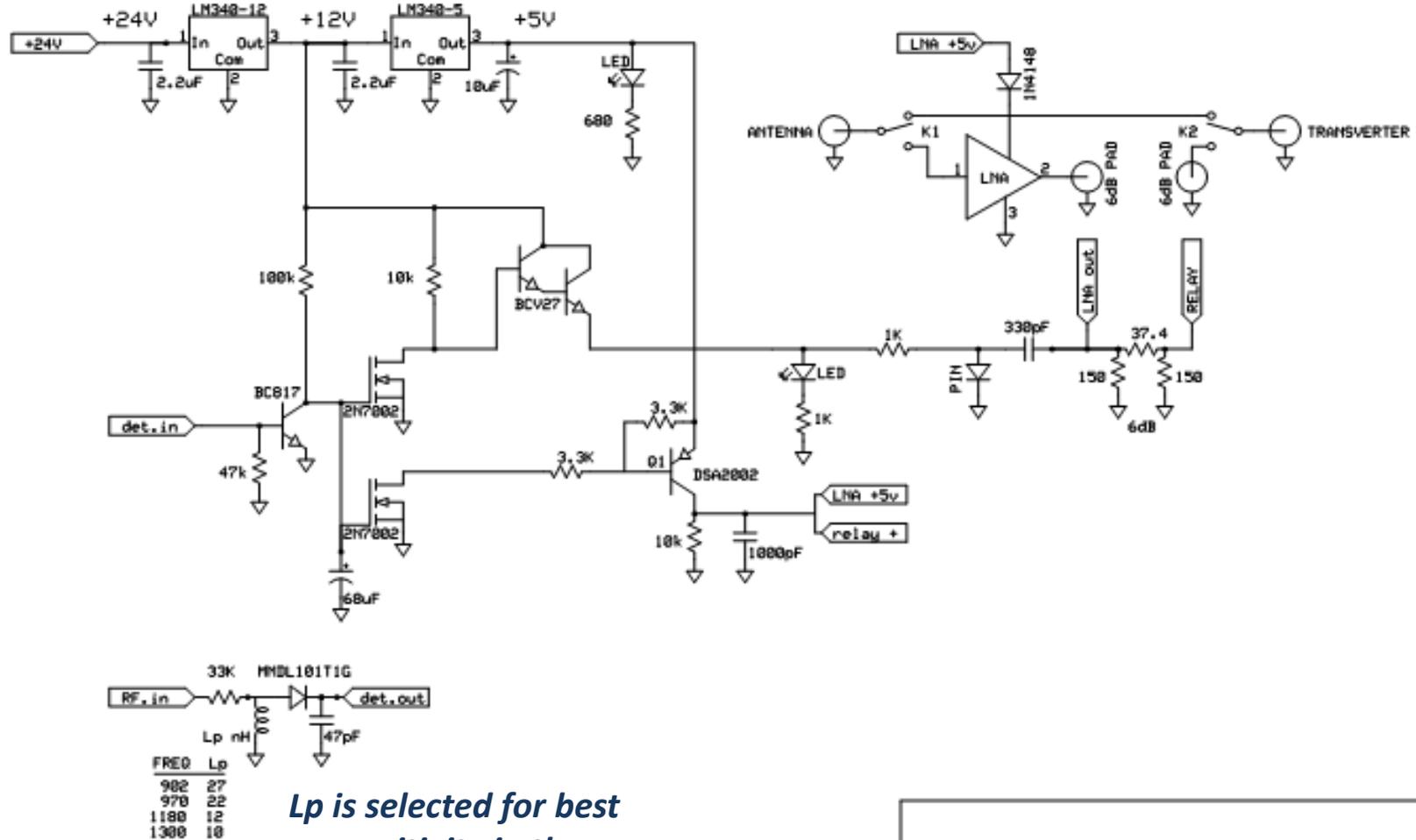


# Remote LNAs



*For 902 & 1296 MHz*

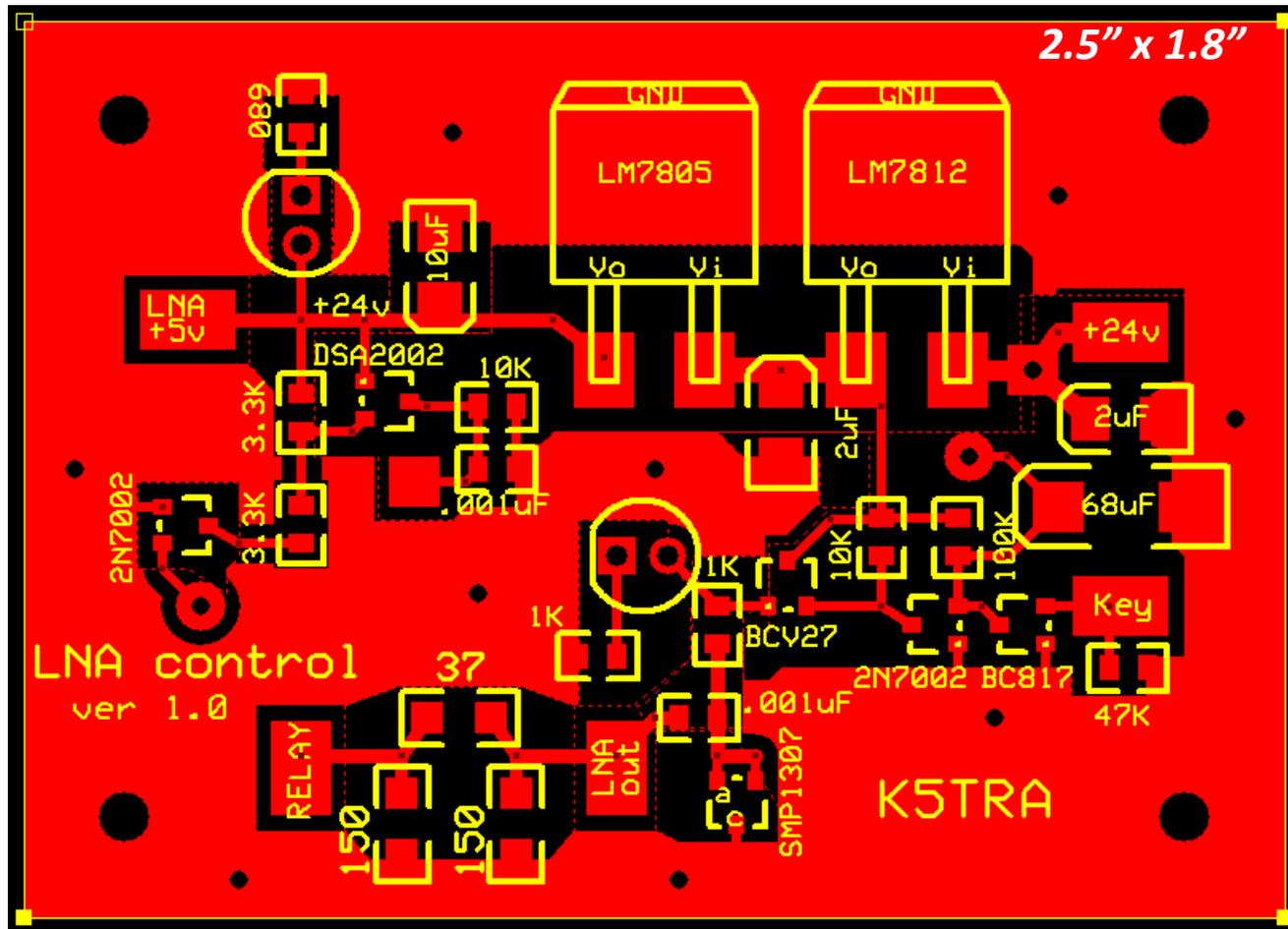
# Remote LNA Control



Remote Relay Control		
K5TRA / T.Apel	Rev 1.0	
	11/12/2012	

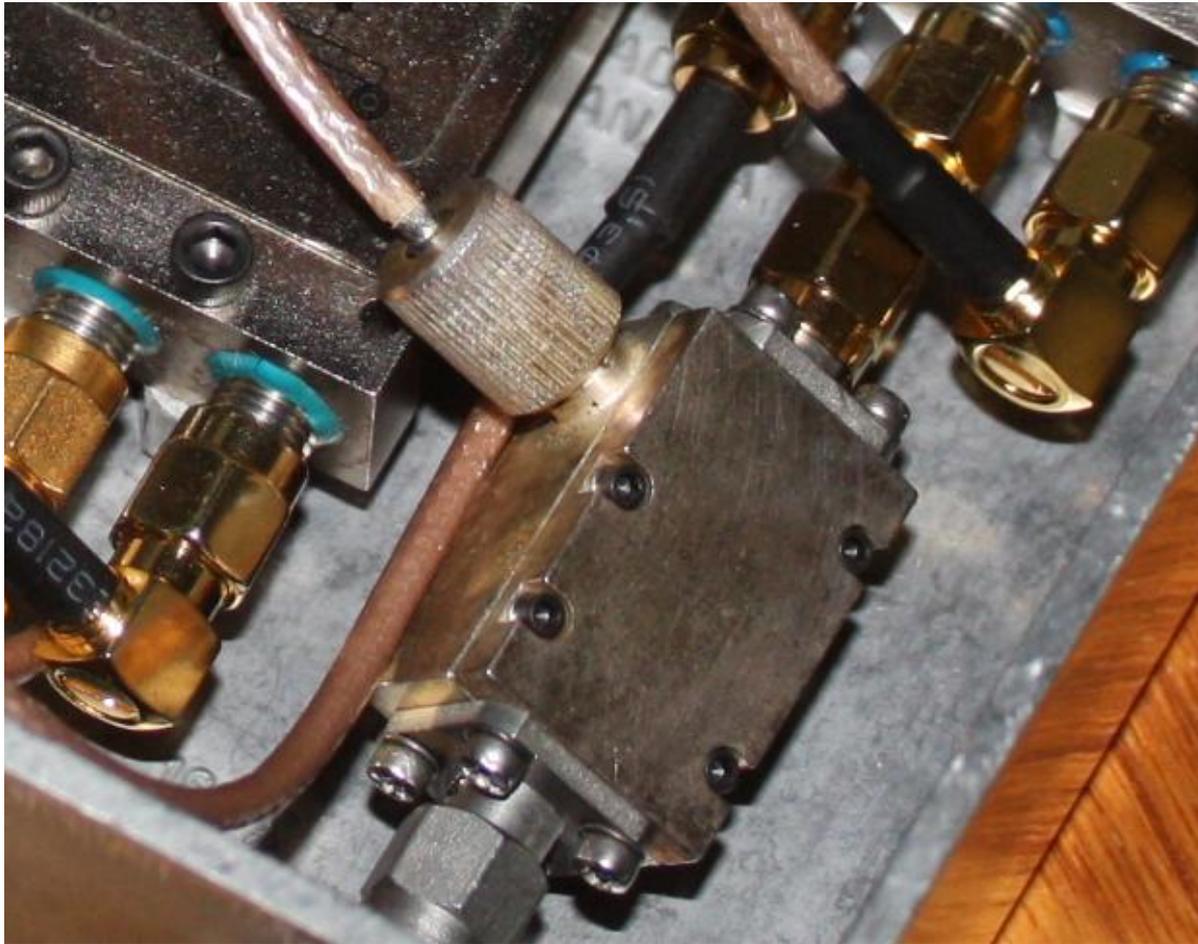
# Control Board Layout

**NOTE: LAYOUT MIRRORED FOR "PRESS-N-PEEL" PATTERNING**



# Schottky Detector

*CONTROL SENSITIVITY DOWN TO +13 dBm*





# Details

- Remote LNAs for operation at the antenna
- Units constructed for 902 MHz and 1296 MHz
- Mini-circuits ZX60-P162 LNA provide:
  - 0.5 dB NF @ 902 MHz and 0.56 dB NF @ 1296 MHz
  - +23 dB gain @ 902 MHz and + 21 dB gain @ 1296 MHz
  - 1 db compression approximately +20 dBm
- Schottky detector circuit is tweaked for sensitivity
  - +13 dBm will key the control circuit
  - No issues with 150W transmit levels on thru line
- Bypass loss is approximately 0.7 dB
- Bypass recovery time is approximately 1.2 seconds

# Completed Assembly

