

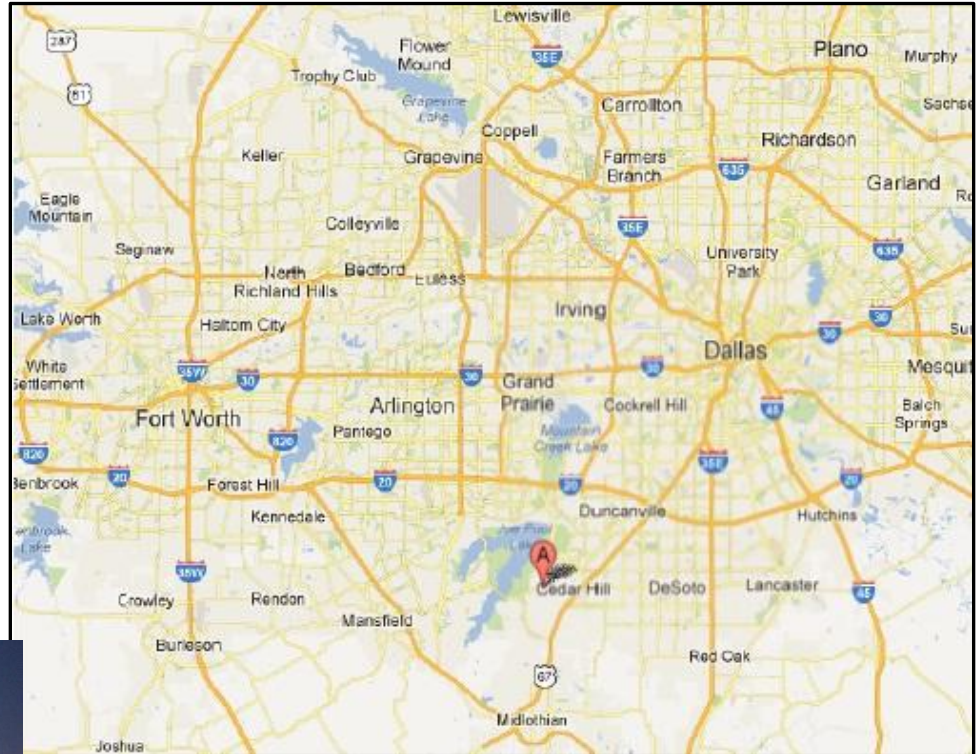


Brad Cobo, N5WCO

10GHz Portable Station Overview

Introduction

- N5WCO
- Licensed in 1992
- Cedar Hill, TX
- EM12MO 805'ASL
- HF, 2m, 70cm, 10GHz



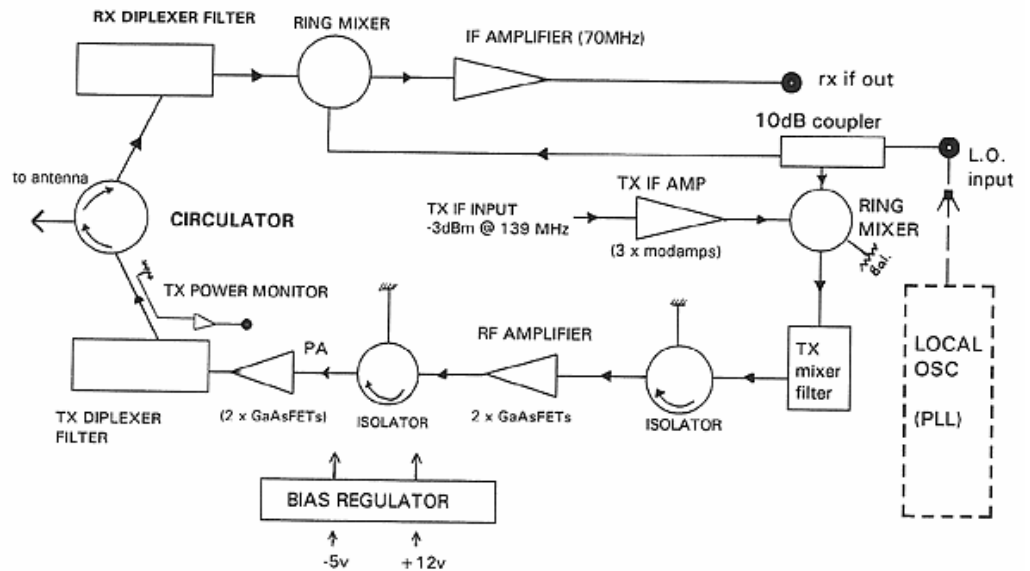
10GHz Portable

- Based on the M/A-COM "White Box"



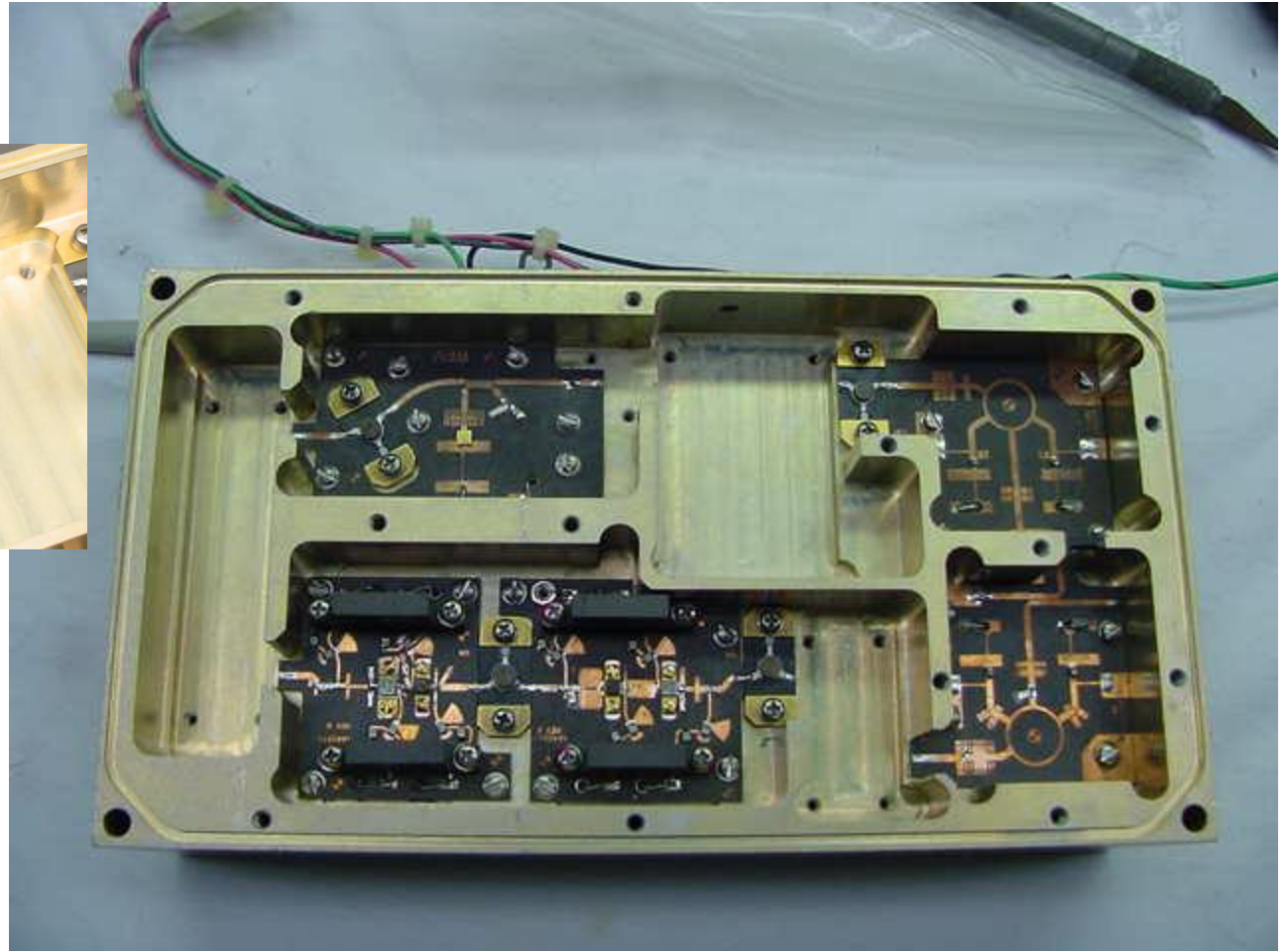
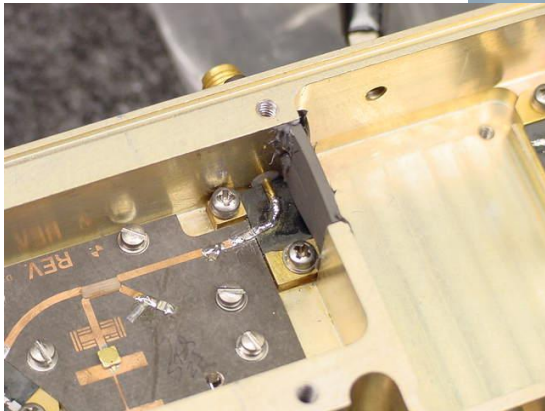
Figure 1

WHITE BOX RF UNIT -BLOCK
DIAGRAM OF ORIGINAL CIRCUIT



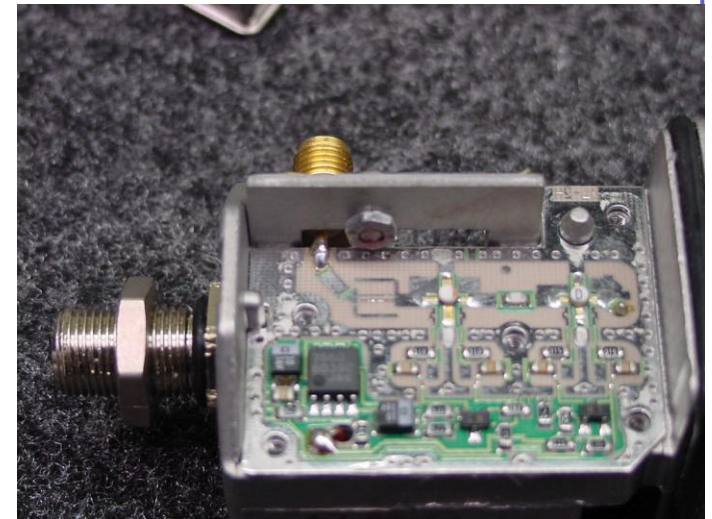
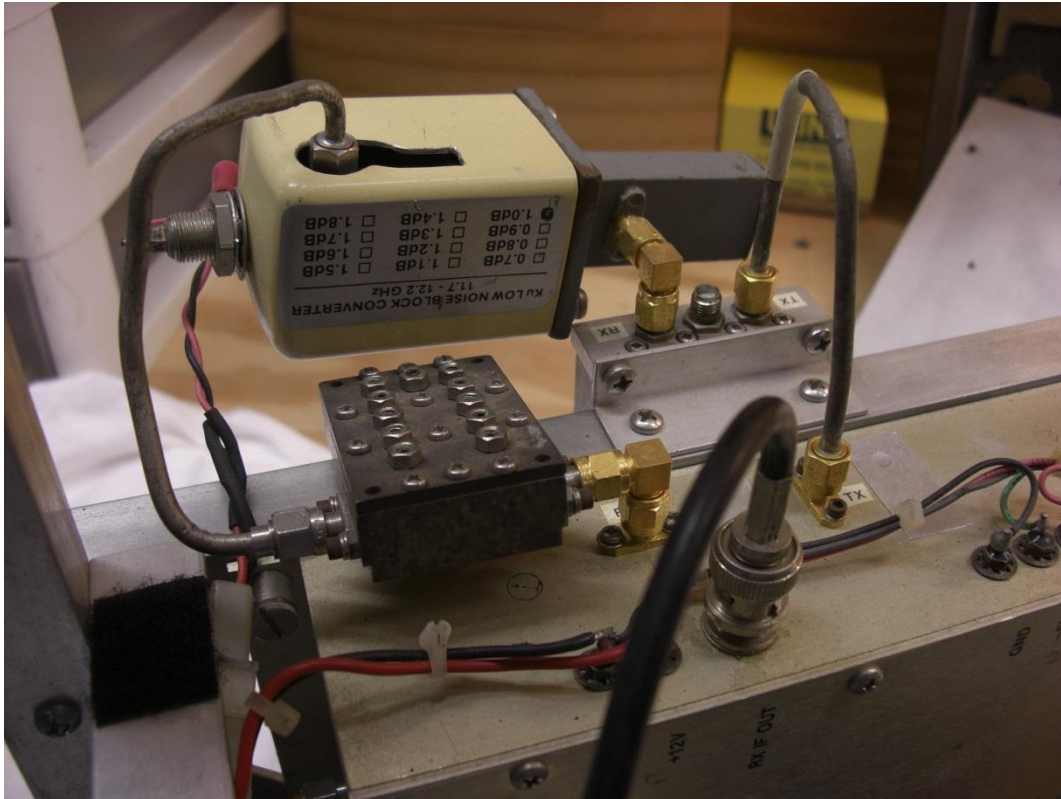
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- Transverter Mods
 - Remove and Retune Filters
 - Remove Circulator / Split Output
 - Install Connectors



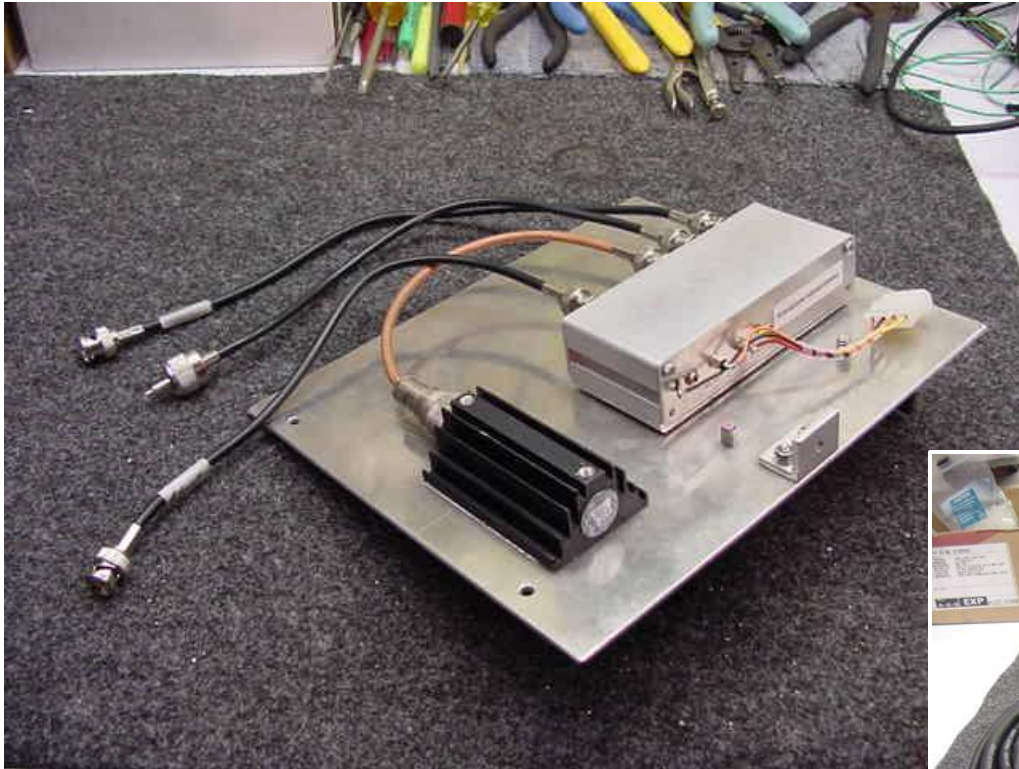
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- LNA Mods
 - Remove DRO
 - Re-feed power
 - ~1.0dB NF
- Install Coaxial Relay



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- IF Interface / Power Supply



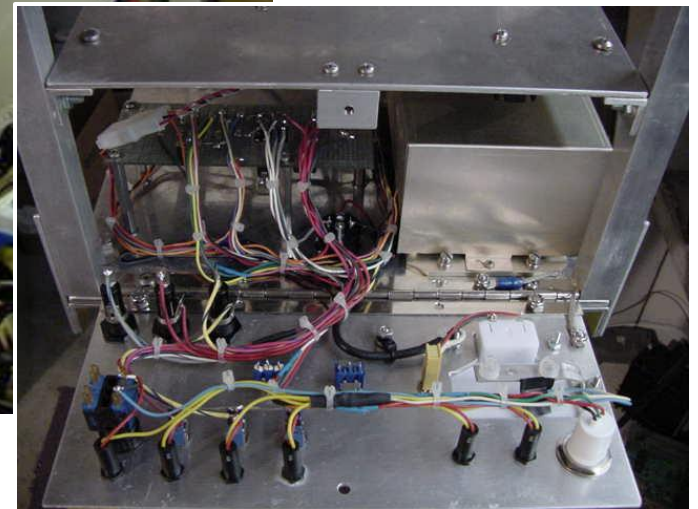
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- Tripod / Carrier



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- IF Radio



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- 2012 Update
 - FLEX-1500 SDR
 - GPSDO
 - Consolidate PSU's
 - Plan for 24GHz

