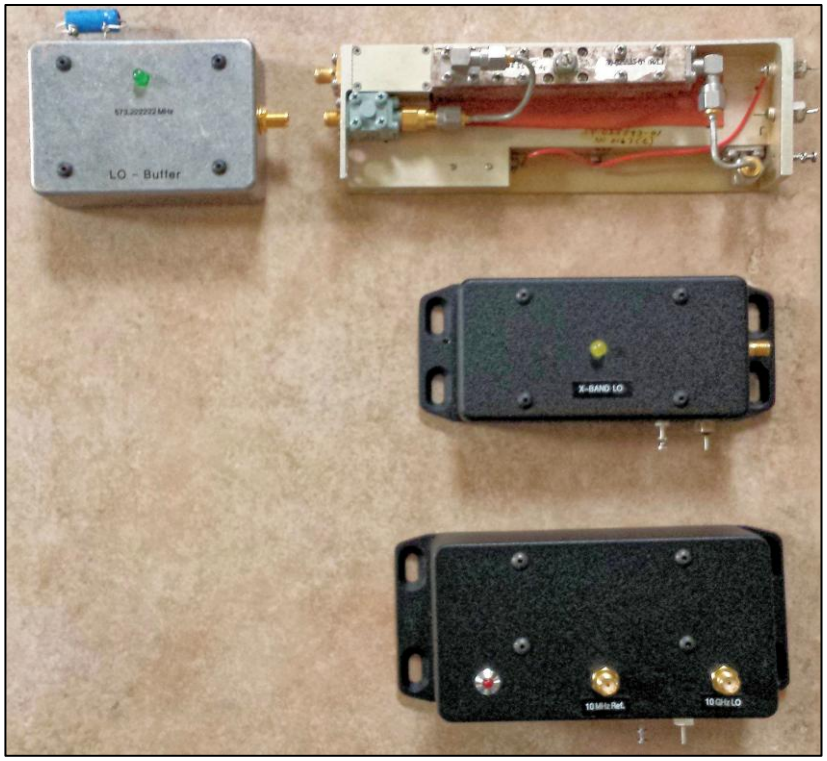
3 GENERATIONS OF 10 GHz TRANSVERTER LO



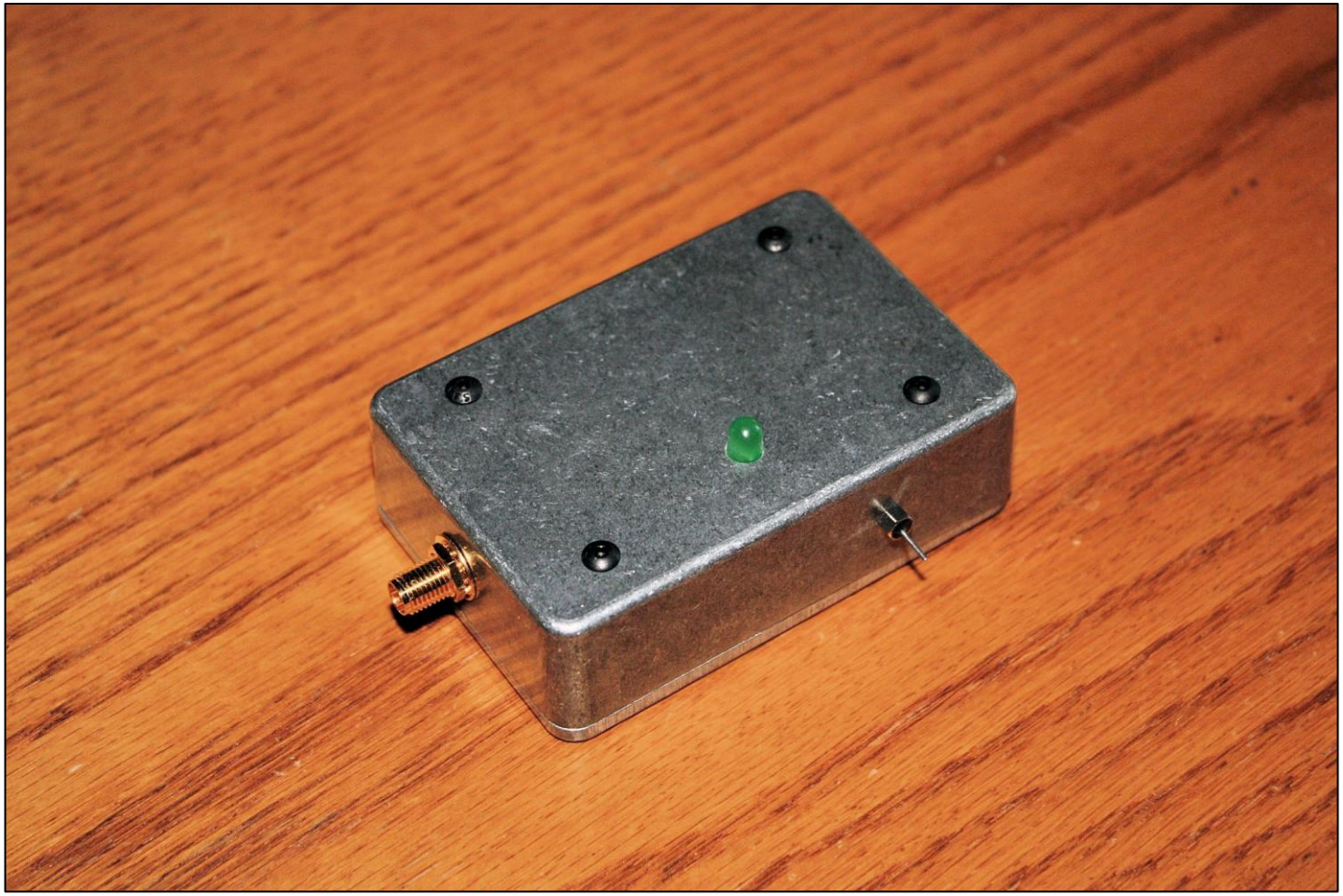
2015
573.22222 MHz SI530
Surplus x18 multiplier

2016
644.875 MHz SI530
HMC445LP4 x16 multiplier

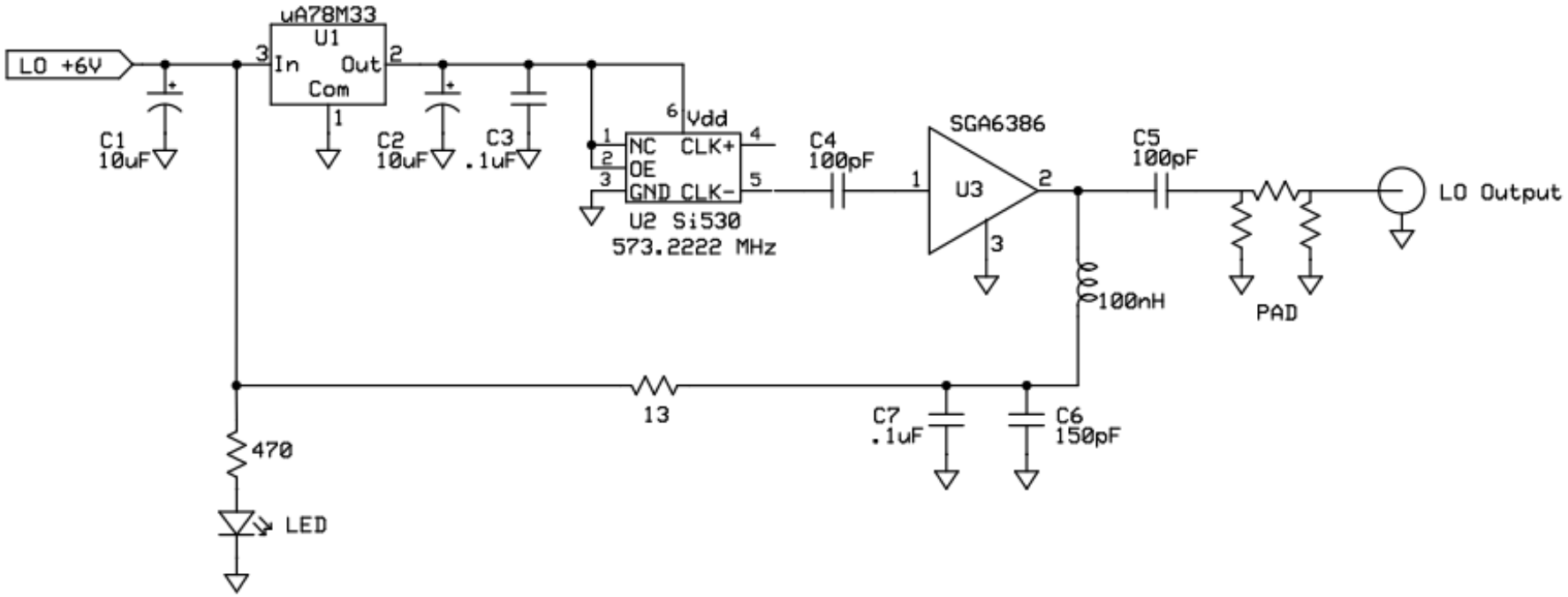
2017
Orion synthesizer with OCXO
3439.3333 MHz
NLB-310 x3 multiplier

K5TRA

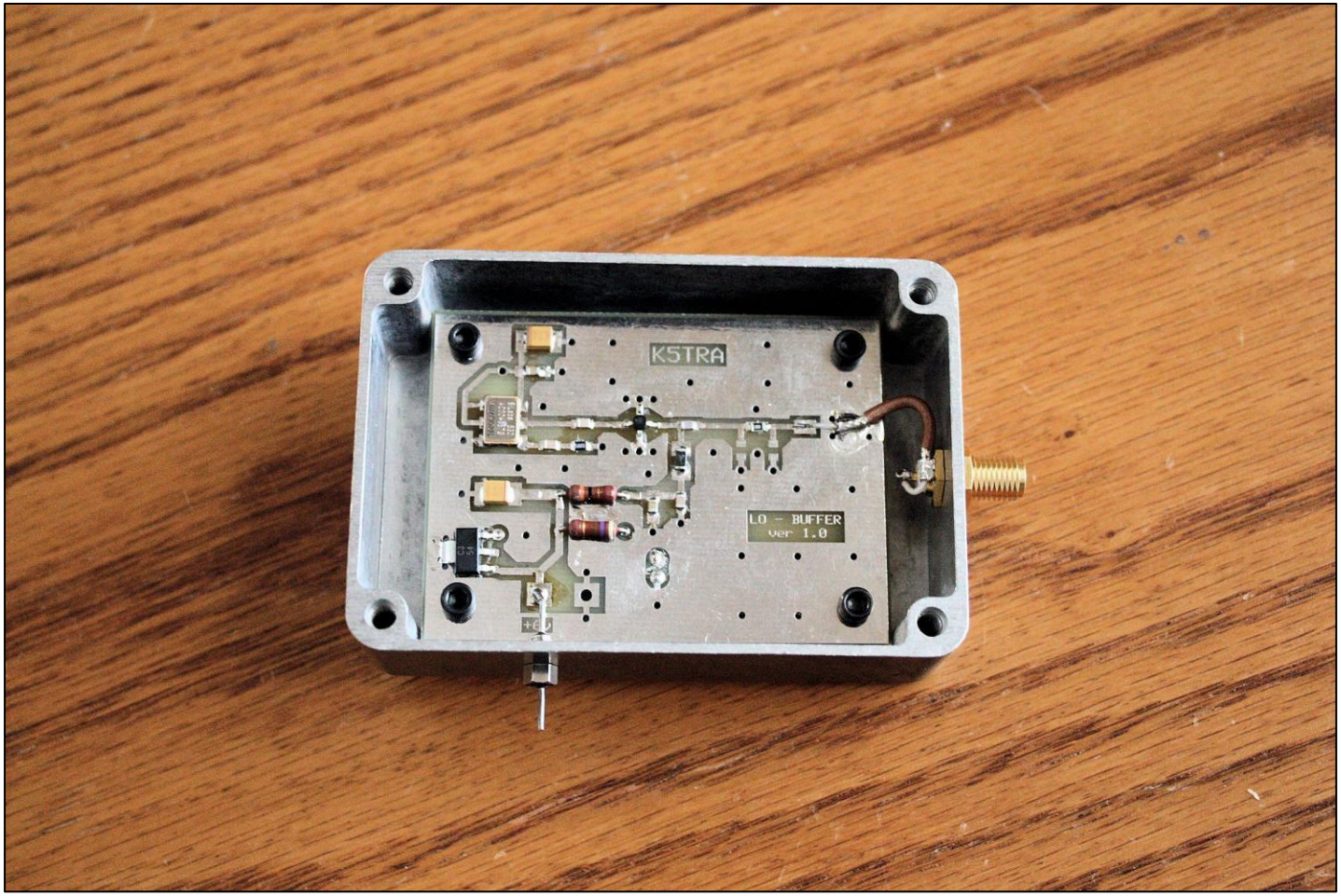
2015 – LO SOURCE (DRIVES x18 MULTIPLIER)



2015 – LO SOURCE SCHEMATIC



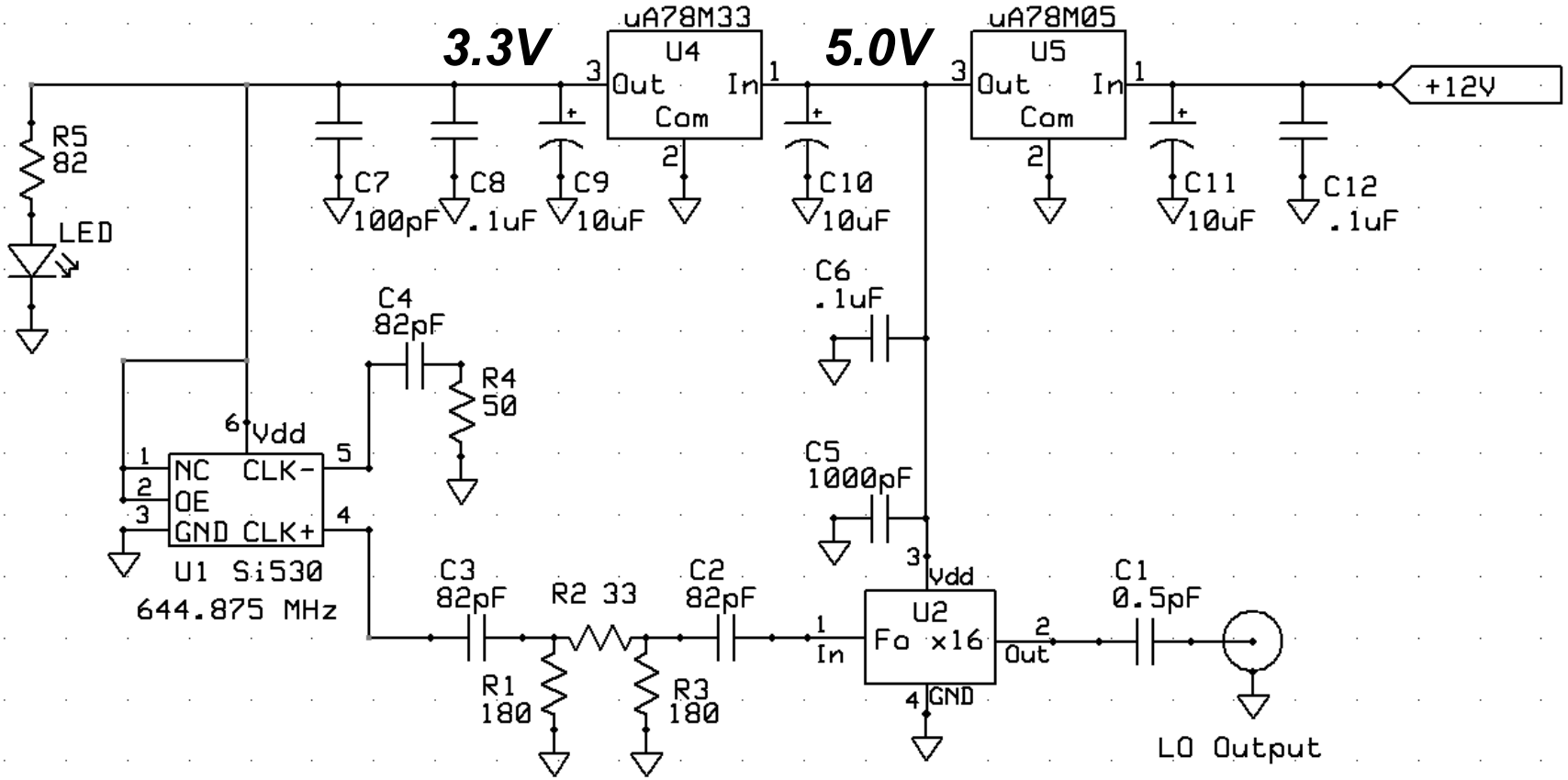
2015 – LO MODULE INTERIOR



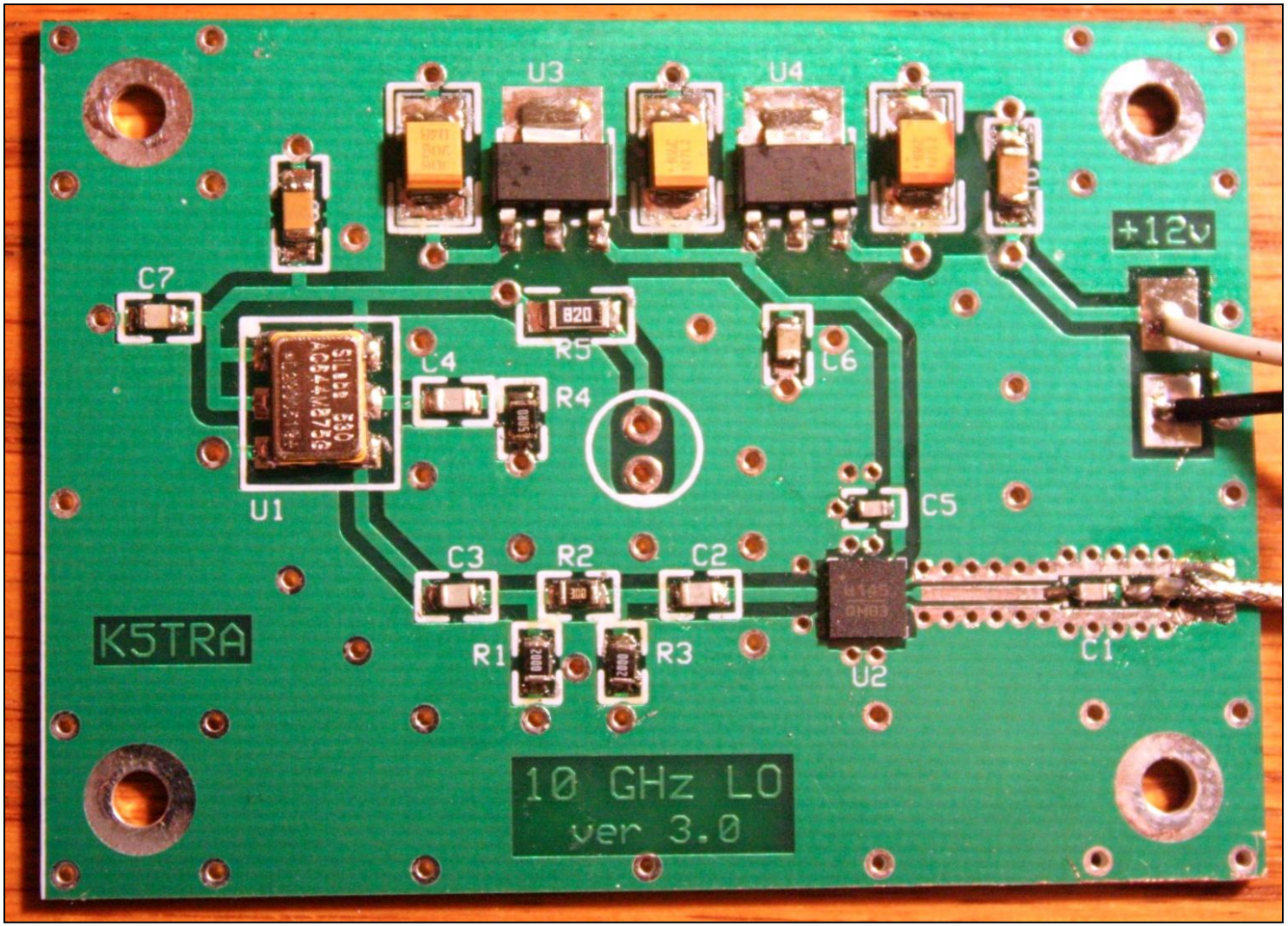
2016 – 10 GHz LO MODULE – 16x MULTIPLIER



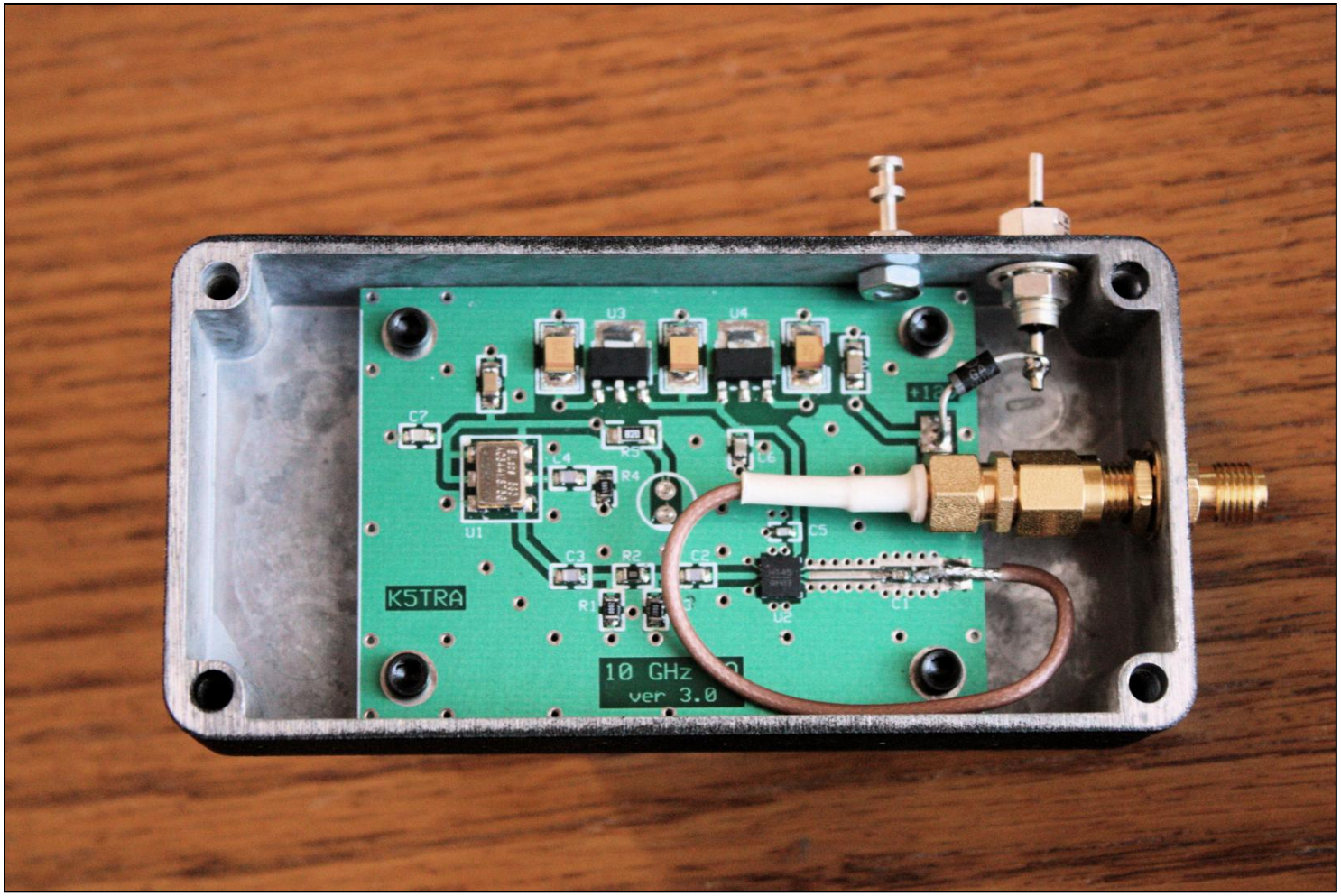
2016 – 10 GHz LO SCHEMATIC



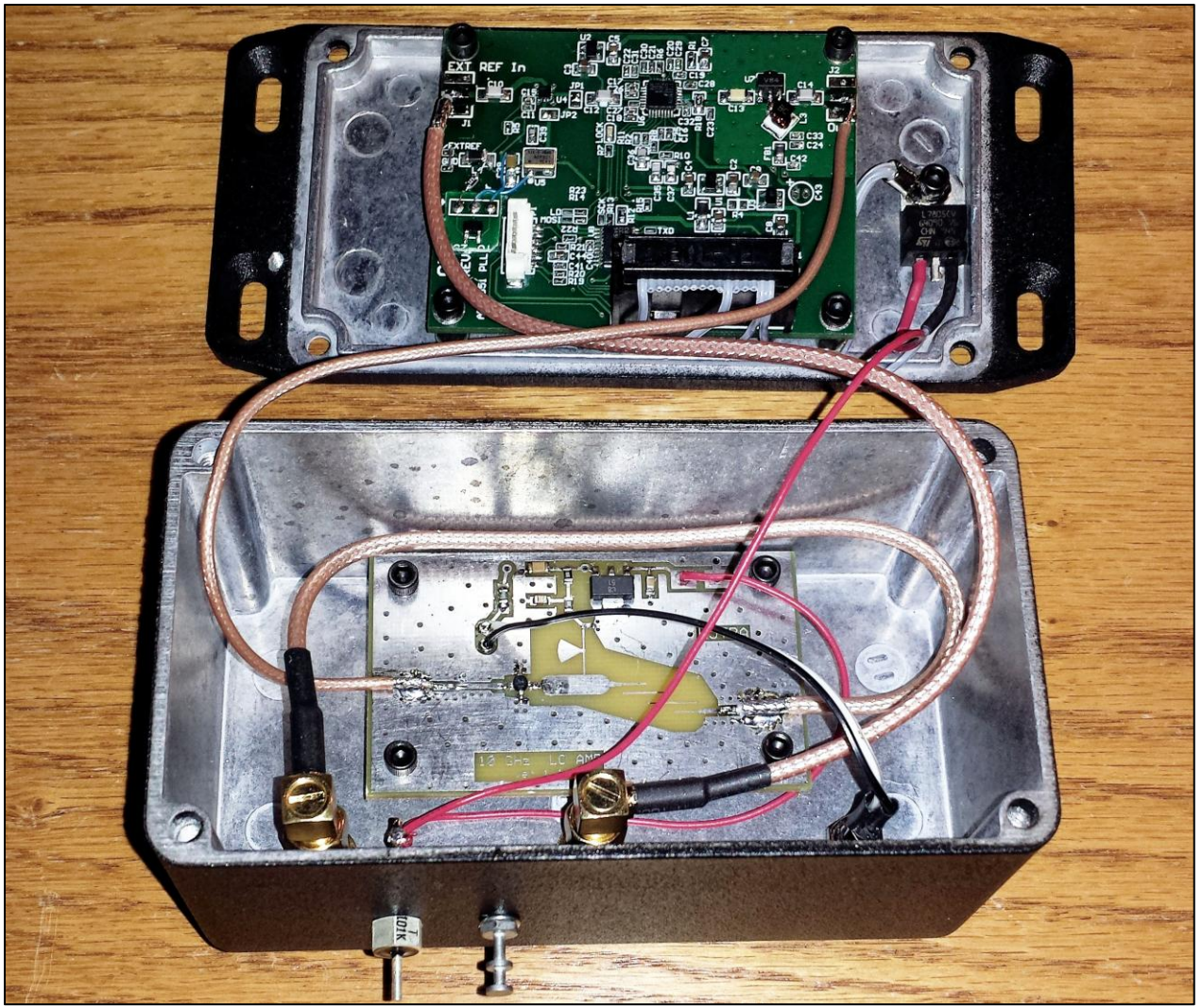
2016 – 10 GHz LO BOARD



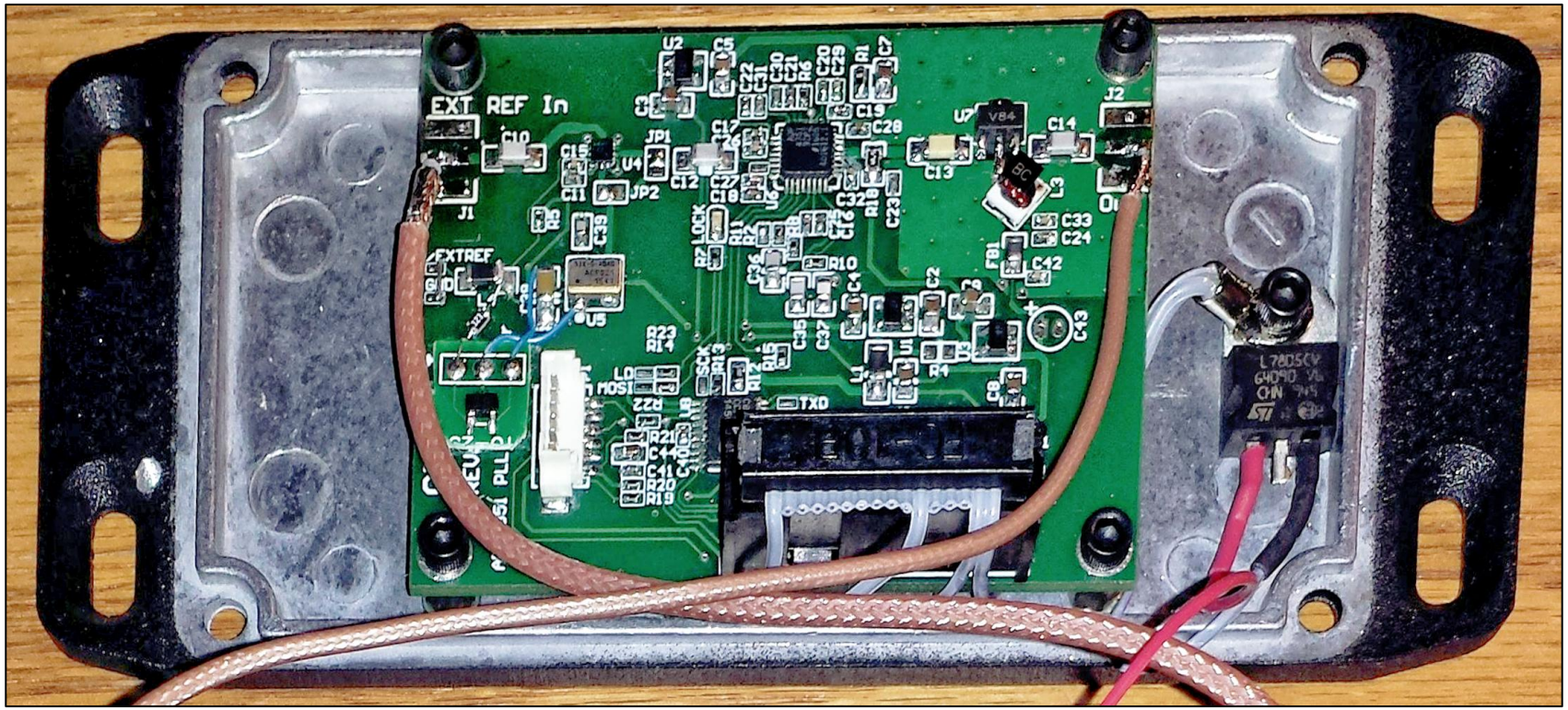
2016 – 10 GHz LO MODULE INTERIOR



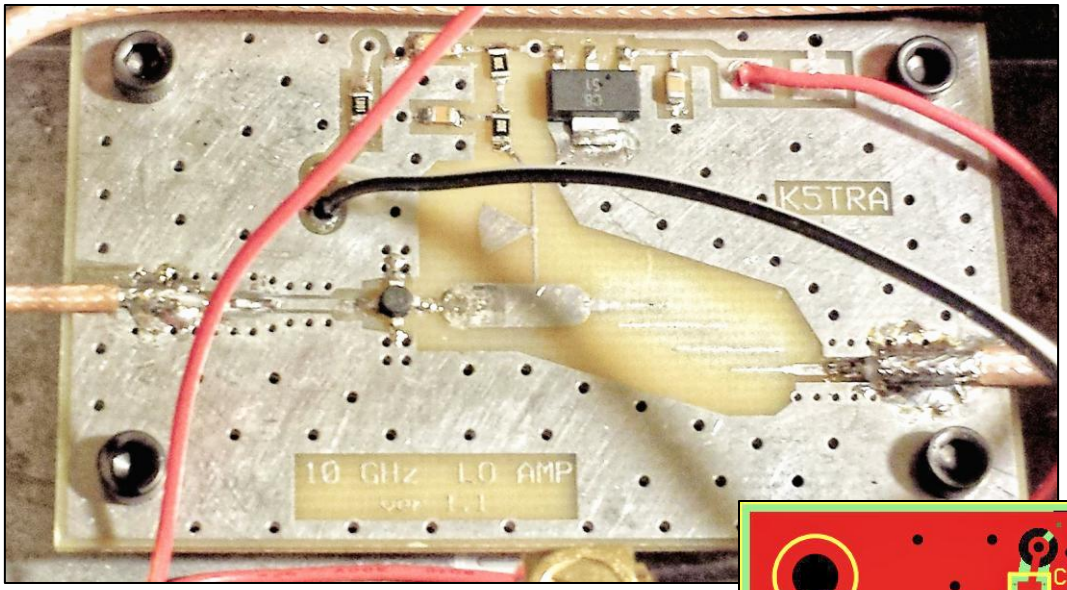
2017 – ORION SYNTHESIZER and TRIPLER

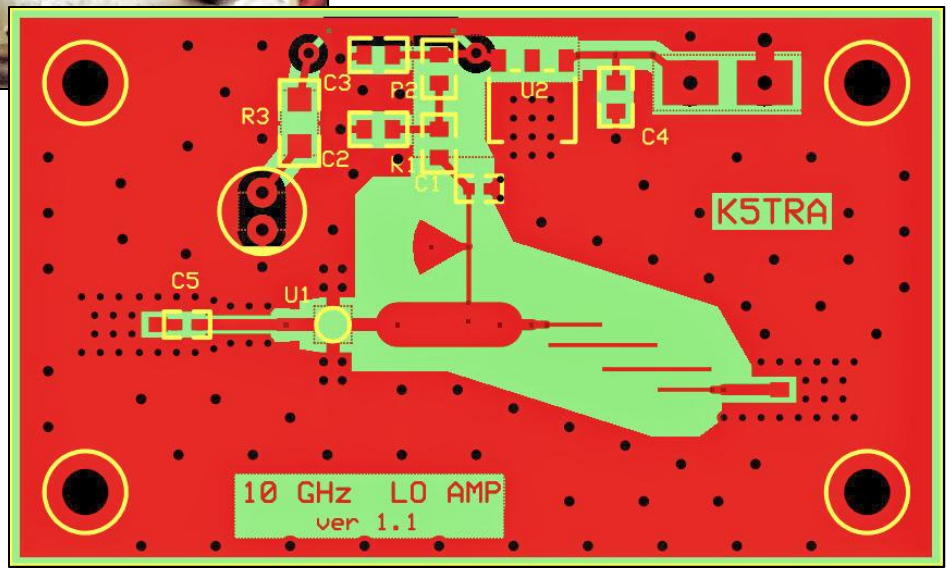


2017 – ORION SYNTHESIZER

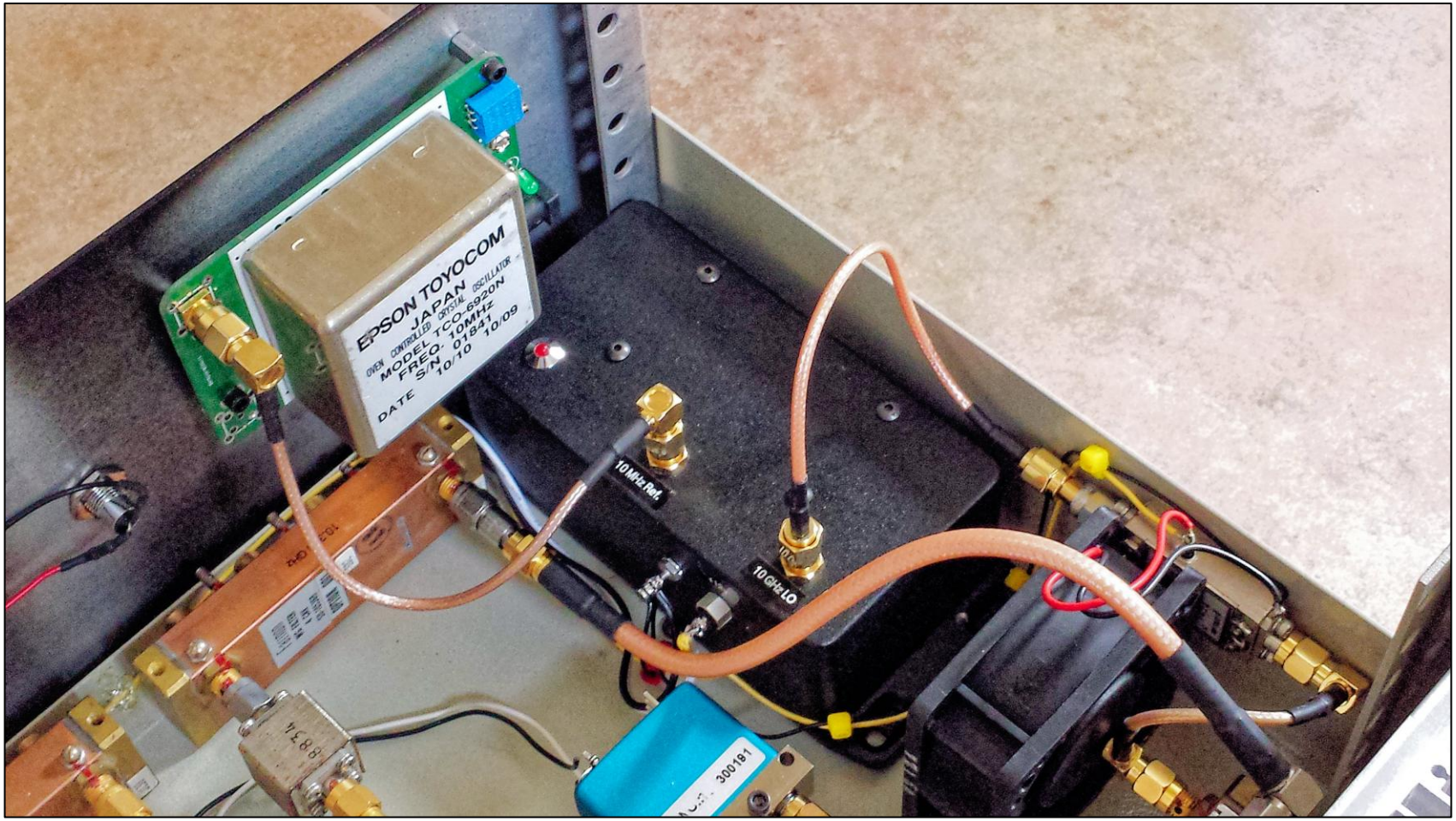


2017 – NLB-310 TRIPLER





2017 UPDATED LO WITH OCXO



10 GHz TRANSVERTER with SYNTHESIZED LO

