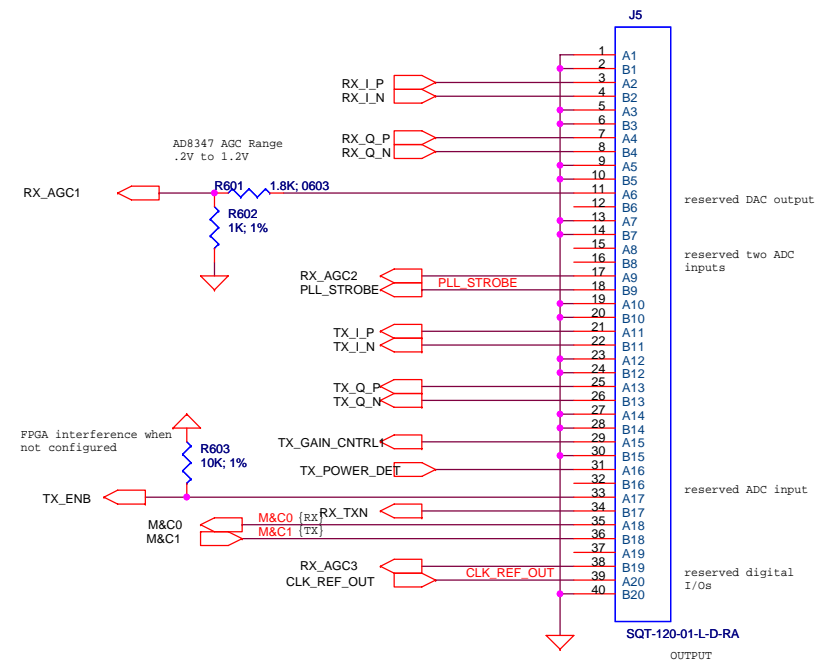
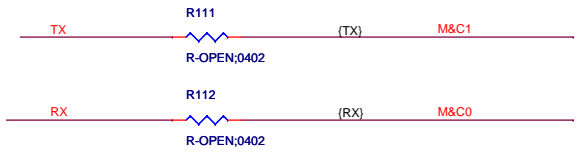
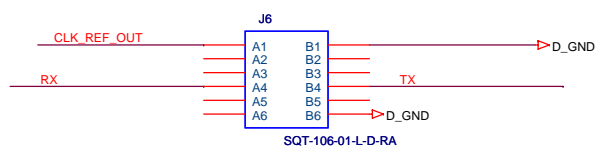
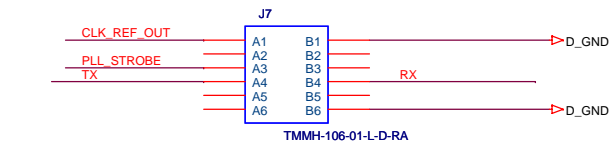


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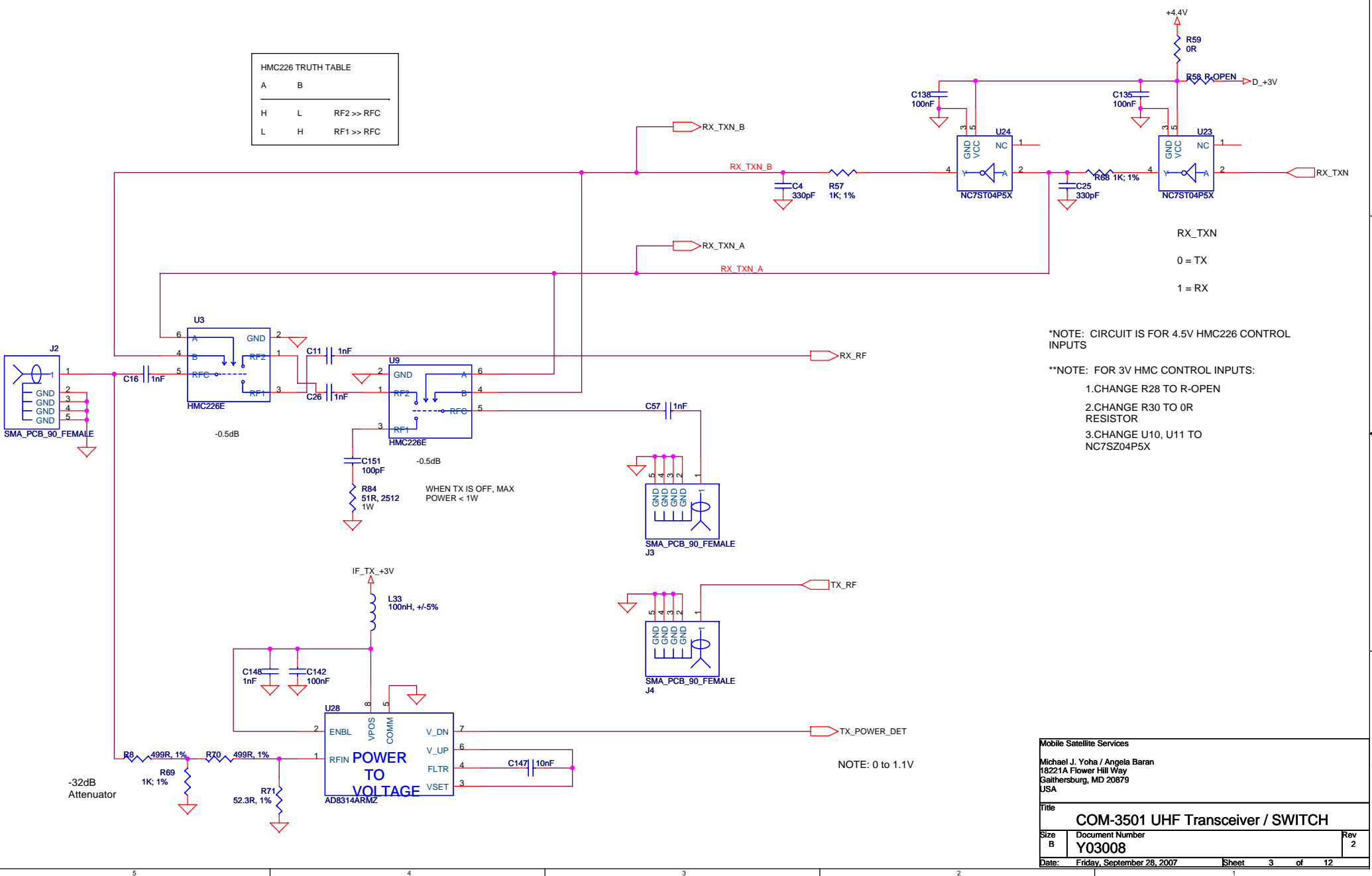
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Michael J. Yoha / Angela Baran 18221A Flower Hill Way Gaithersburg, MD 20879 JSA		
Title COM-3501 UHF Transceiver / MAIN		
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HMC226 TRUTH TABLE

A	B	
H	L	RF2 >> RFC
L	H	RF1 >> RFC

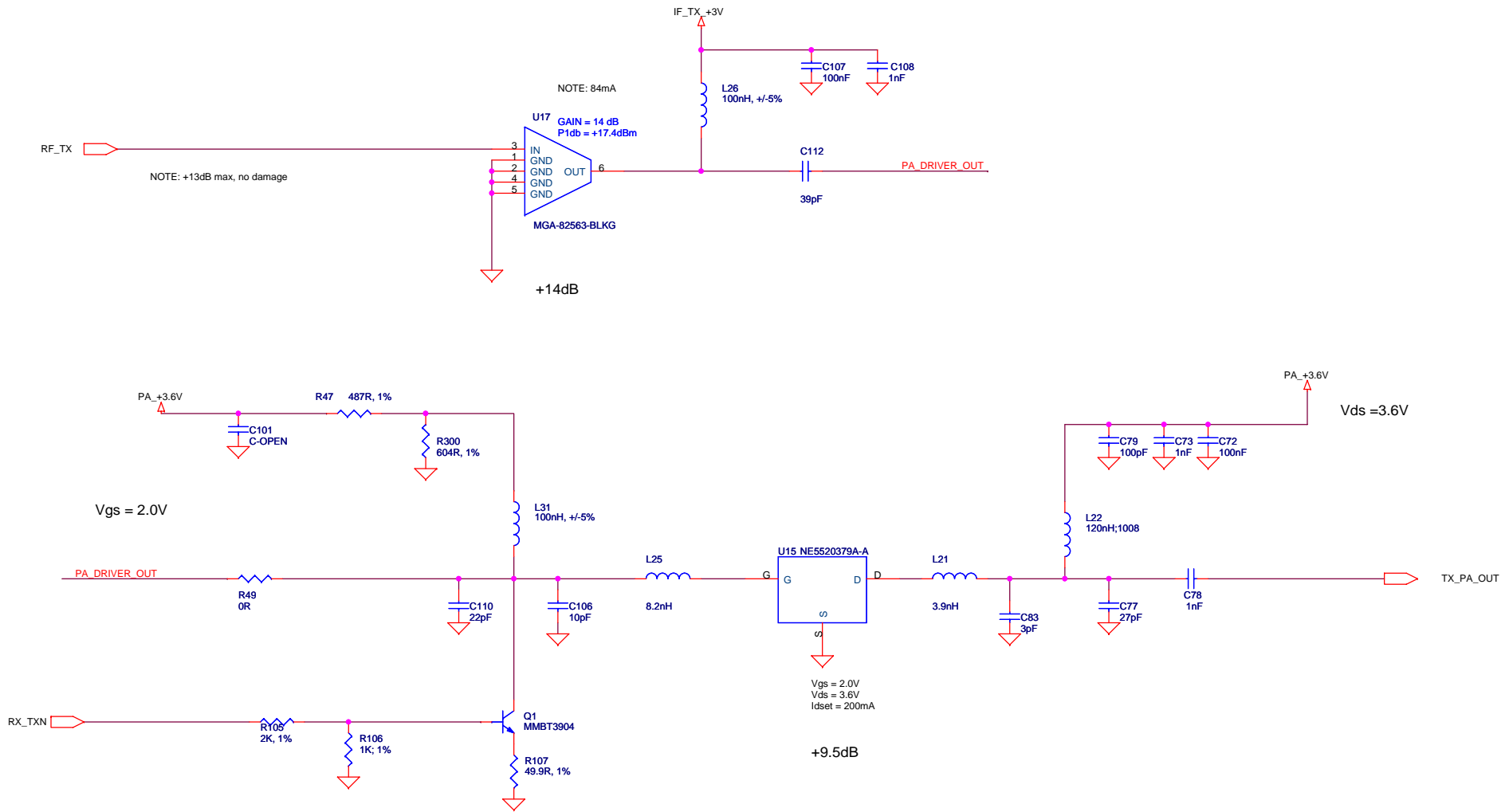


*NOTE: CIRCUIT IS FOR 4.5V HMC226 CONTROL INPUTS

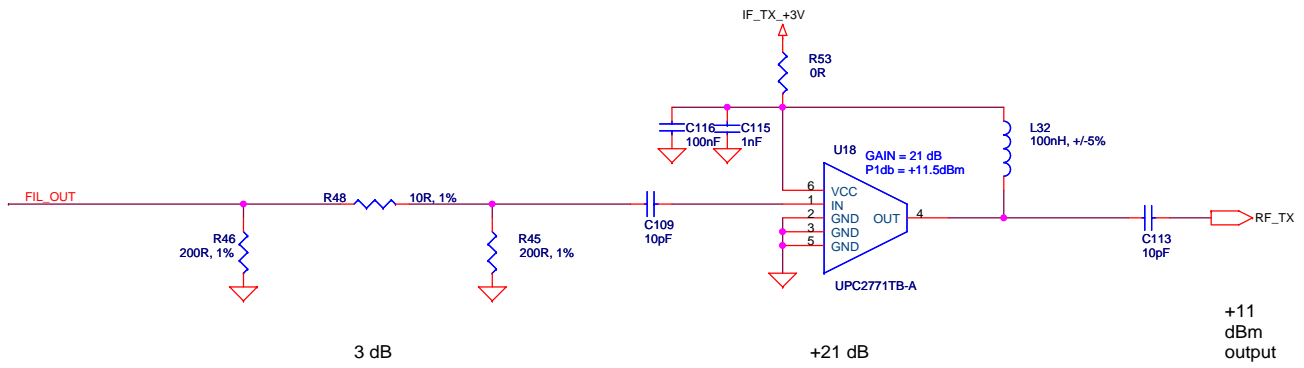
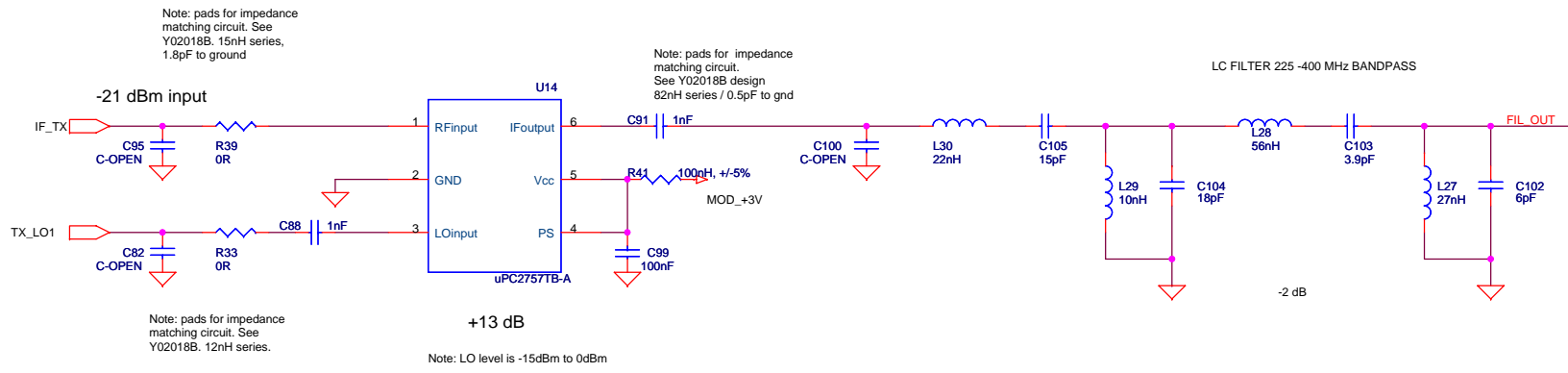
**NOTE: FOR 3V HMC CONTROL INPUTS:

- 1.CHANGE R28 TO R-OPEN
- 2.CHANGE R30 TO 0R RESISTOR
- 3.CHANGE U10, U11 TO NC7SZ04P5X

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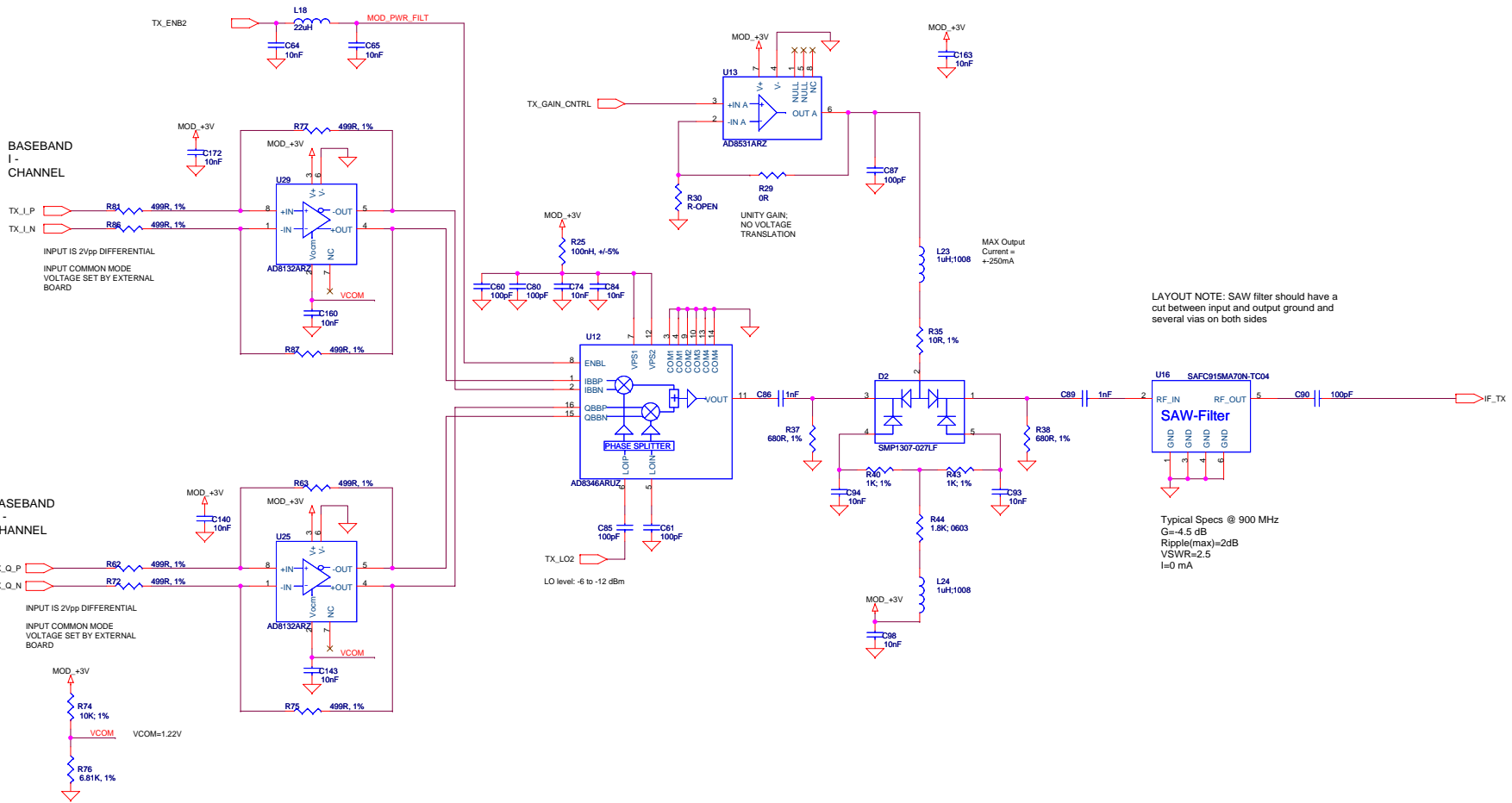


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ENABLE IS HIGH ACTIVE



BASEBAND I - CHANNEL

BASEBAND Q - CHANNEL

INPUT IS 2Vpp DIFFERENTIAL
INPUT COMMON MODE VOLTAGE SET BY EXTERNAL BOARD

INPUT IS 2Vpp DIFFERENTIAL
INPUT COMMON MODE VOLTAGE SET BY EXTERNAL BOARD

VCOM=1.22V

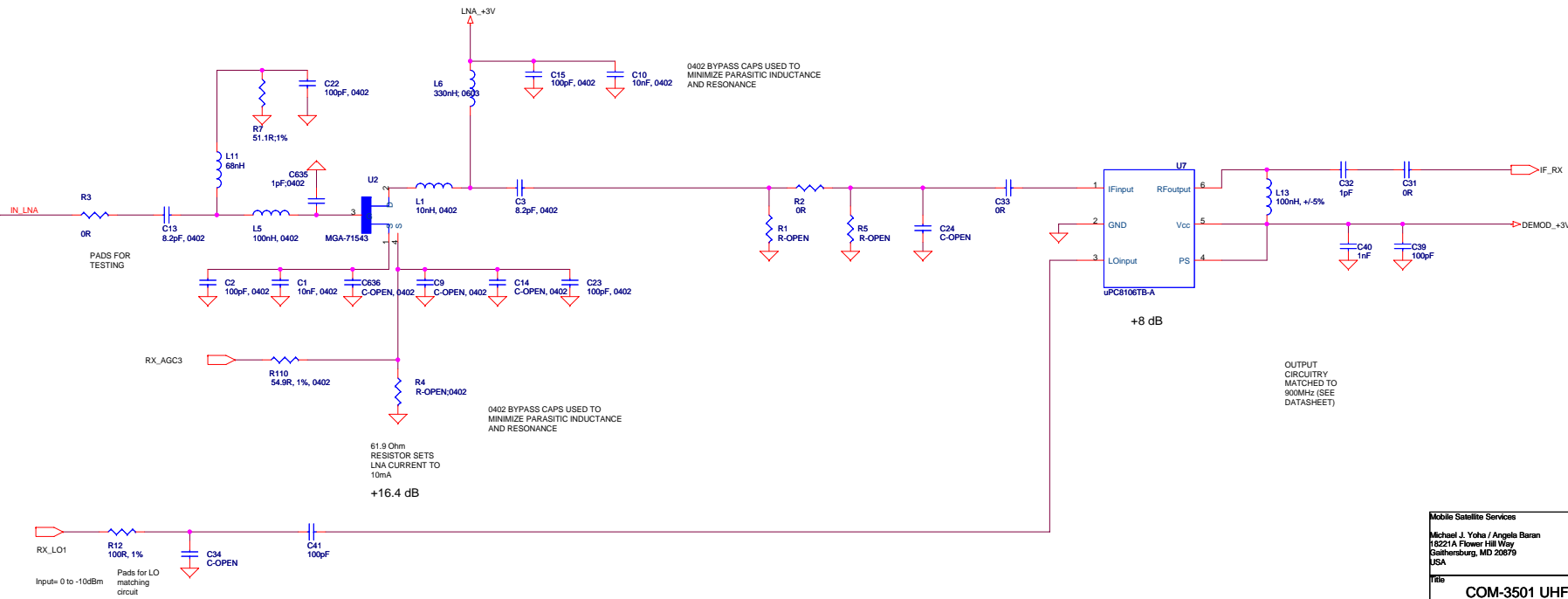
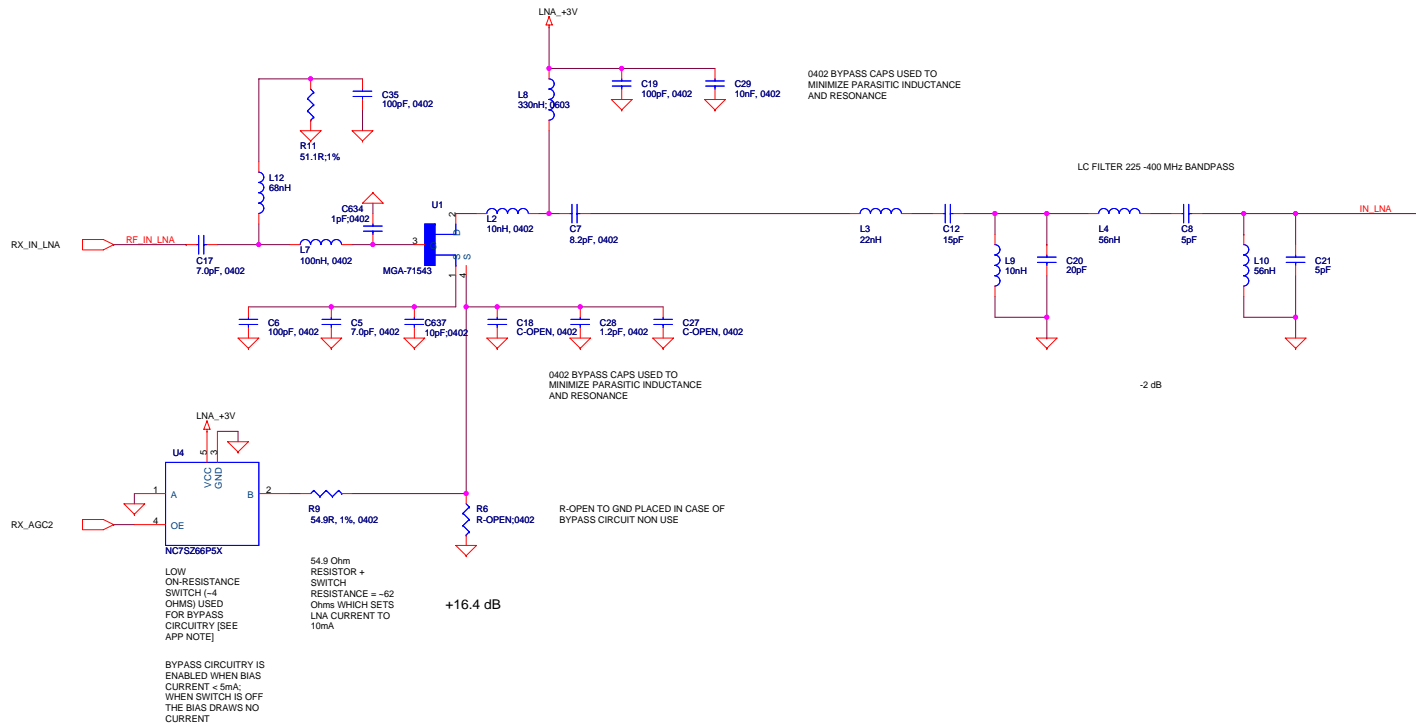
LO level: -6 to -12 dBm

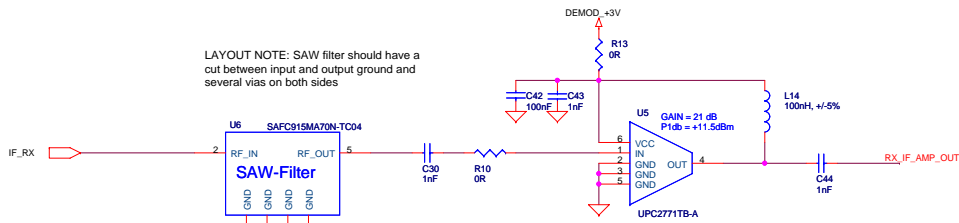
MAX Output Current = +250mA

LAYOUT NOTE: SAW filter should have a cut between input and output ground and several vias on both sides

Typical Specs @ 900 MHz
G=4.5 dB
Ripple(max)=2dB
VSWR=2.5
I=0 mA

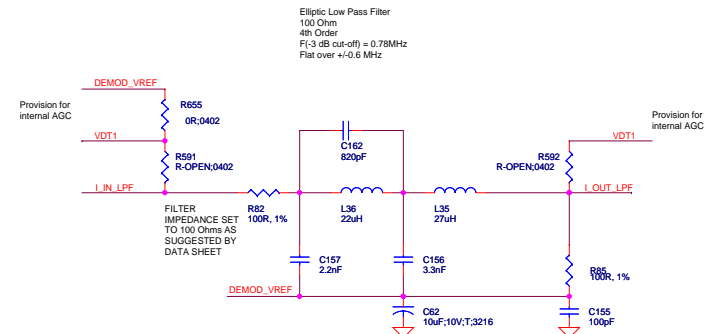
Mobile Satellite Services	
Michael J. Yehs / Angela Baran 18221A Flower Hill Way Gaithersburg, MD 20879 USA	
COM-3501 UHF Transceiver / MODULATOR	
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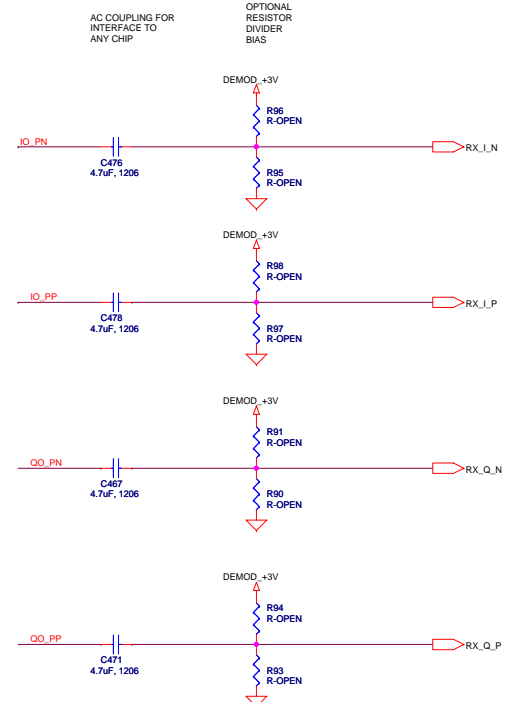
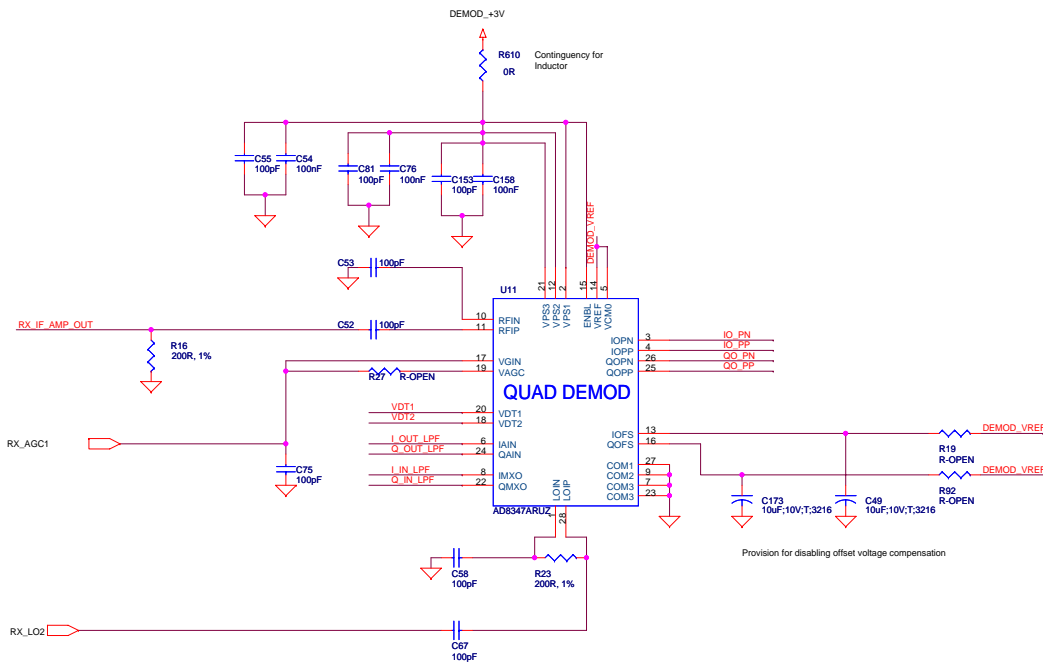
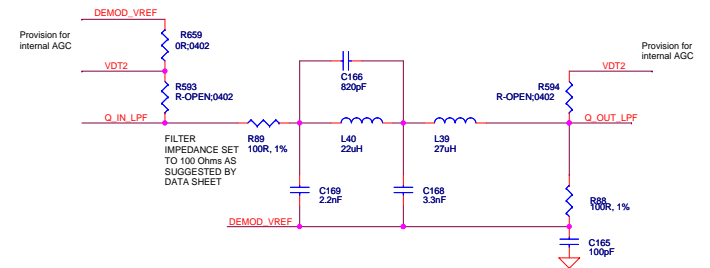


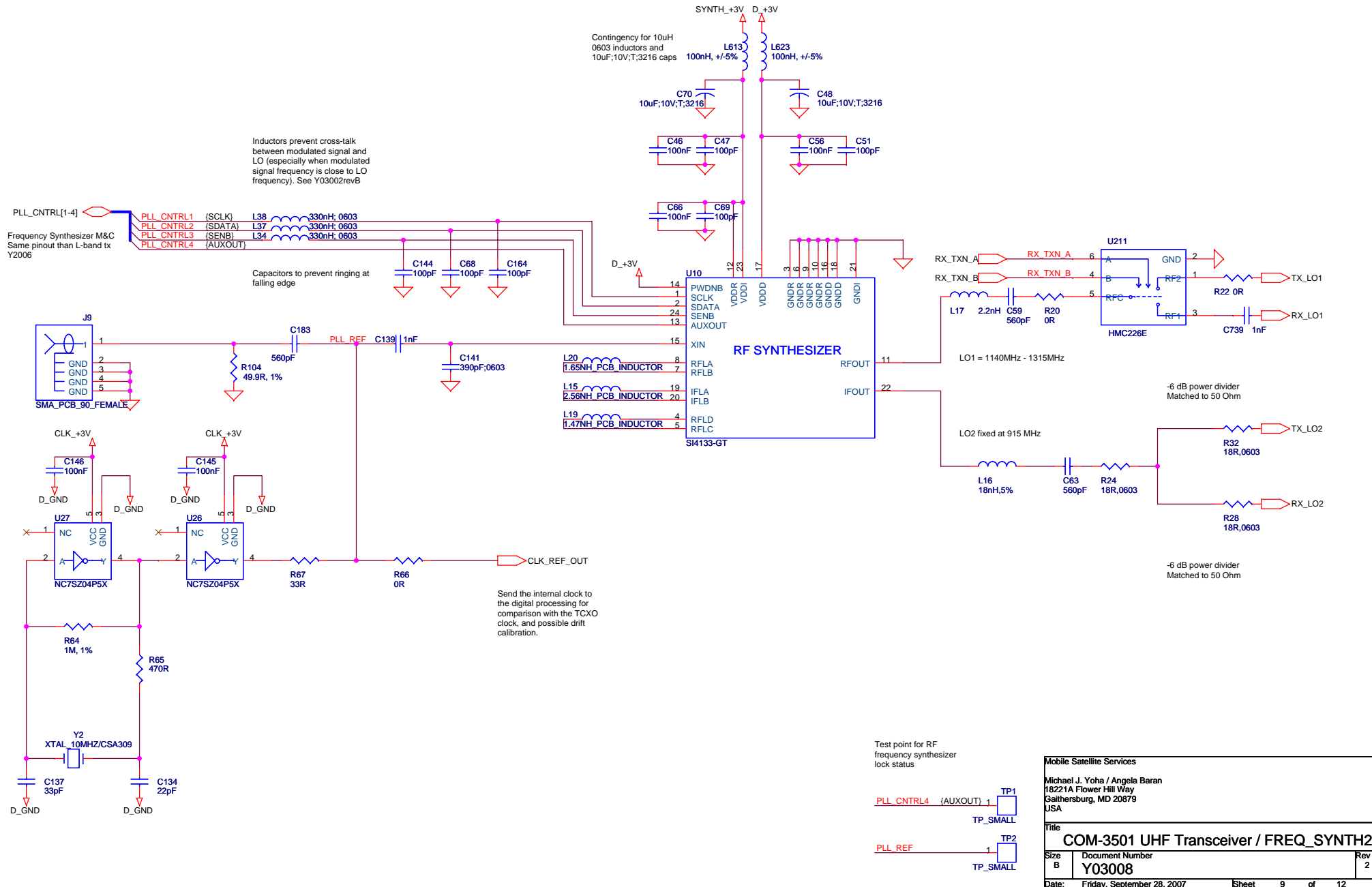
LAYOUT NOTE: SAW filter should have a cut between input and output ground and several vias on both sides

Typical Specs @ 900 MHz
 G=4.5 dB
 Ripple(max)=2dB
 VSWR=2.5
 I=0 mA



Elliptic Low Pass Filter
 100 Ohm
 4th Order
 F(-3 dB cut-off) = 0.78MHz
 Flat over +/-0.6 MHz





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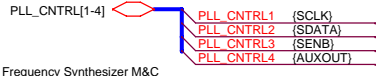
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 18221A Flower Hill Way
 Gaithersburg, MD 20879
 JSA

Title
COM-3501 UHF Transceiver / FREQ_SYNTH2

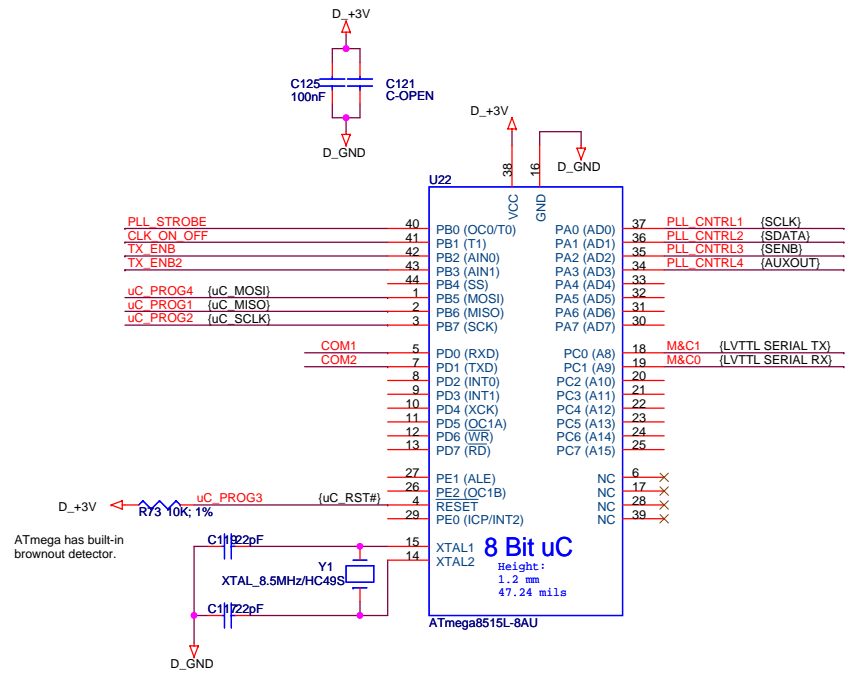
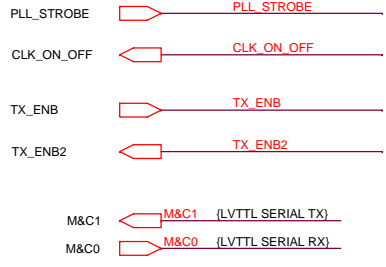
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MICROCONTROLLER

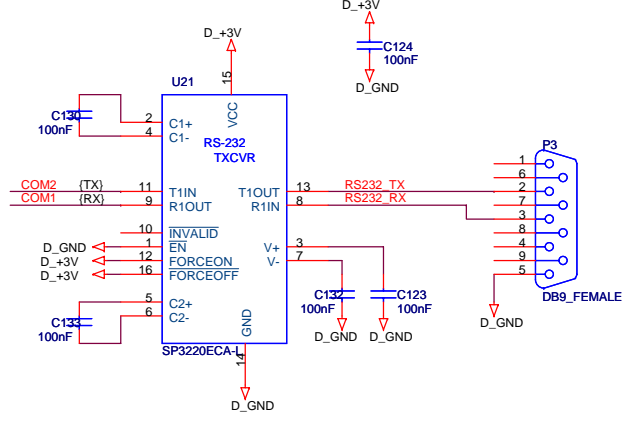
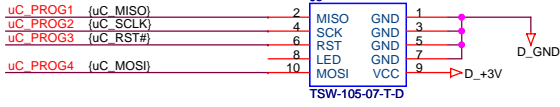


Frequency Synthesizer M&C
 Same pinout than L-band tx
 Y2006



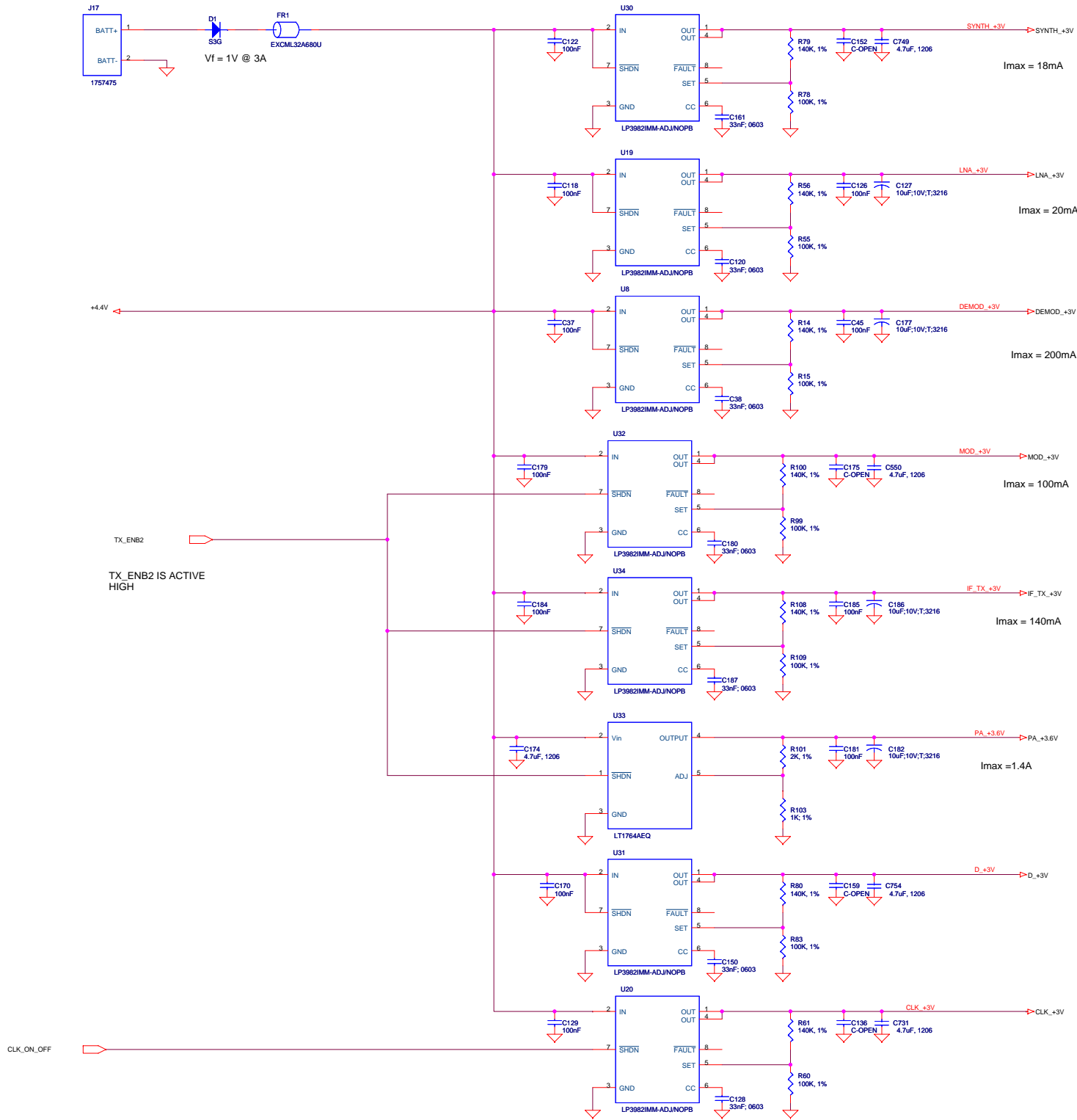
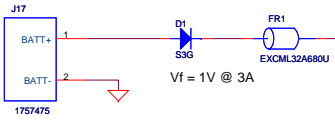
LVTTTL 115.2 Kbaud/s serial communication with digital board

IN CIRCUIT PROGRAMMING HEADER



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+5 V Supply



Itotal = 1.9A

Connect analog and digital grounds in one place to insure they are at the same potential

