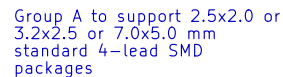




Id: 3/7

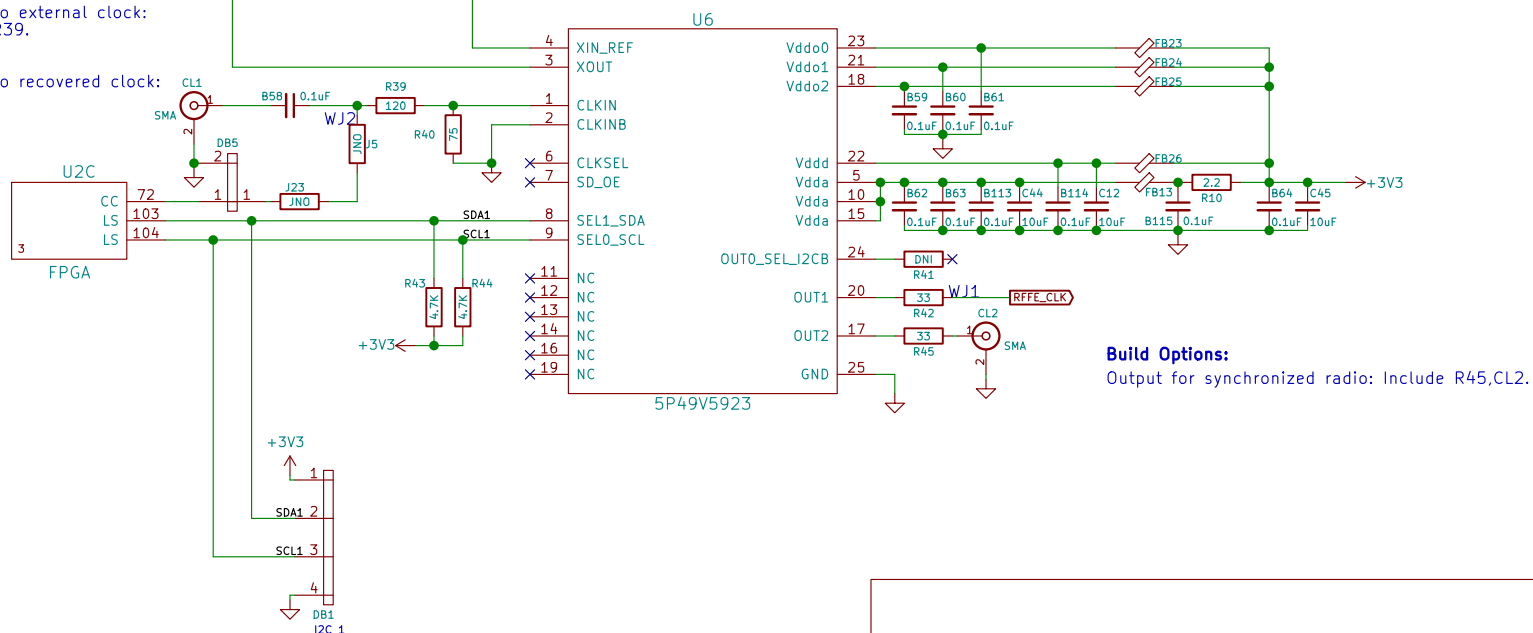
Default Versa with oscillator: Include FB12,C41,B56,B57,X2. Include R36,R38 if required by oscillator. Exclude B55,R35,R37,U5,J3,J4,C42.
Versa with VCO: Include FB12,C41,B56,B57,X2,U5,R35,R37,B55. Exclude R36,R38,J4,J3,C42.
Versa with crystal: Include X2 as crystal, B57 as jumper, J4,J3,C42, R38 as 15pF. Exclude FB12,C41,B56,U5,R35,R36,R37,B55.

No Versa but oscillator to AD9866: Exclude all Versa components, build for oscillator, connect WJ3 to WJ1.
 No Versa but external clock to AD9866: Exclude all Versa components and oscillator components. Wire from WJ2 to WJ1.
 See RF Frontend sheet for additional AD9866 clock options

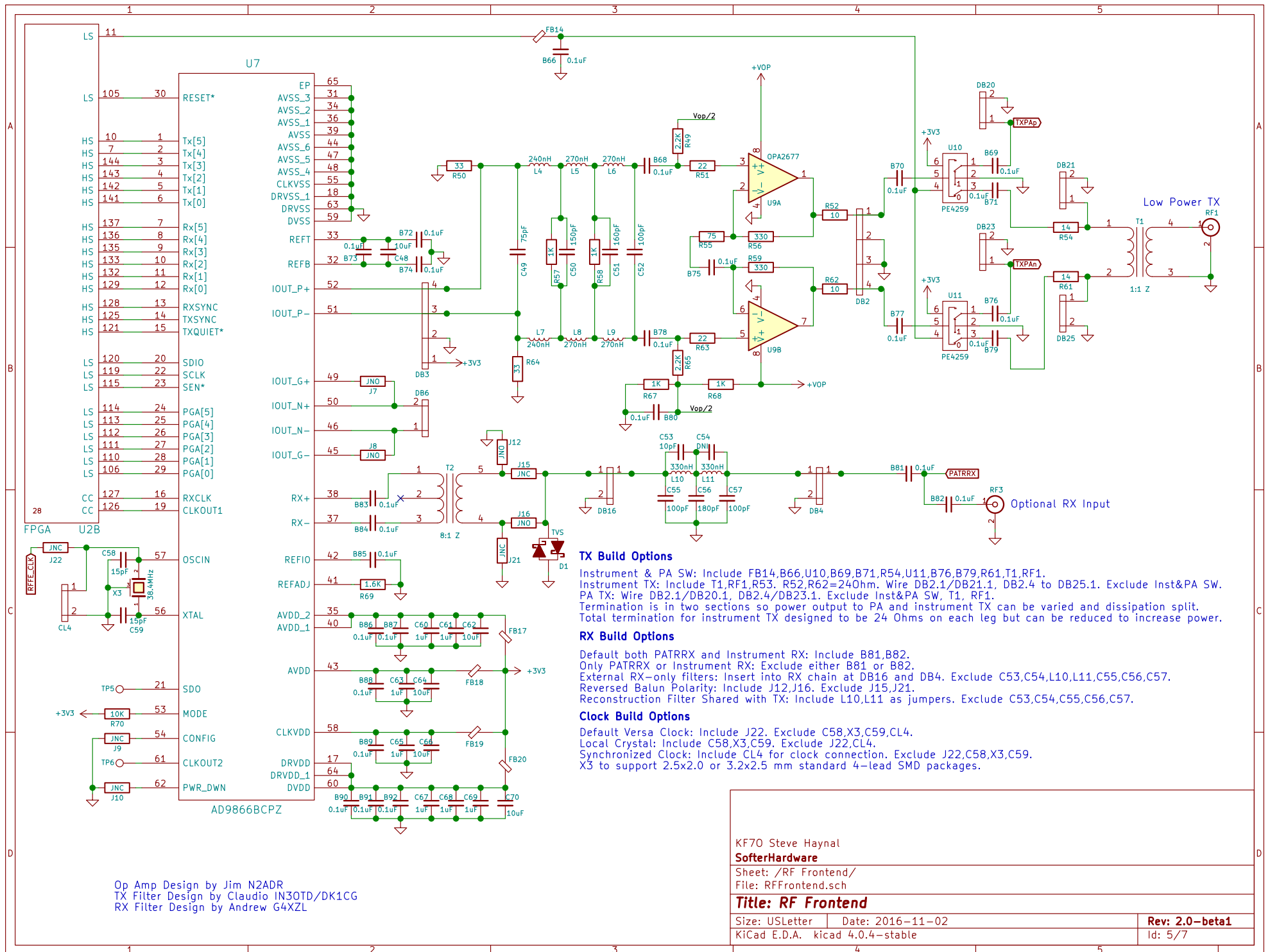


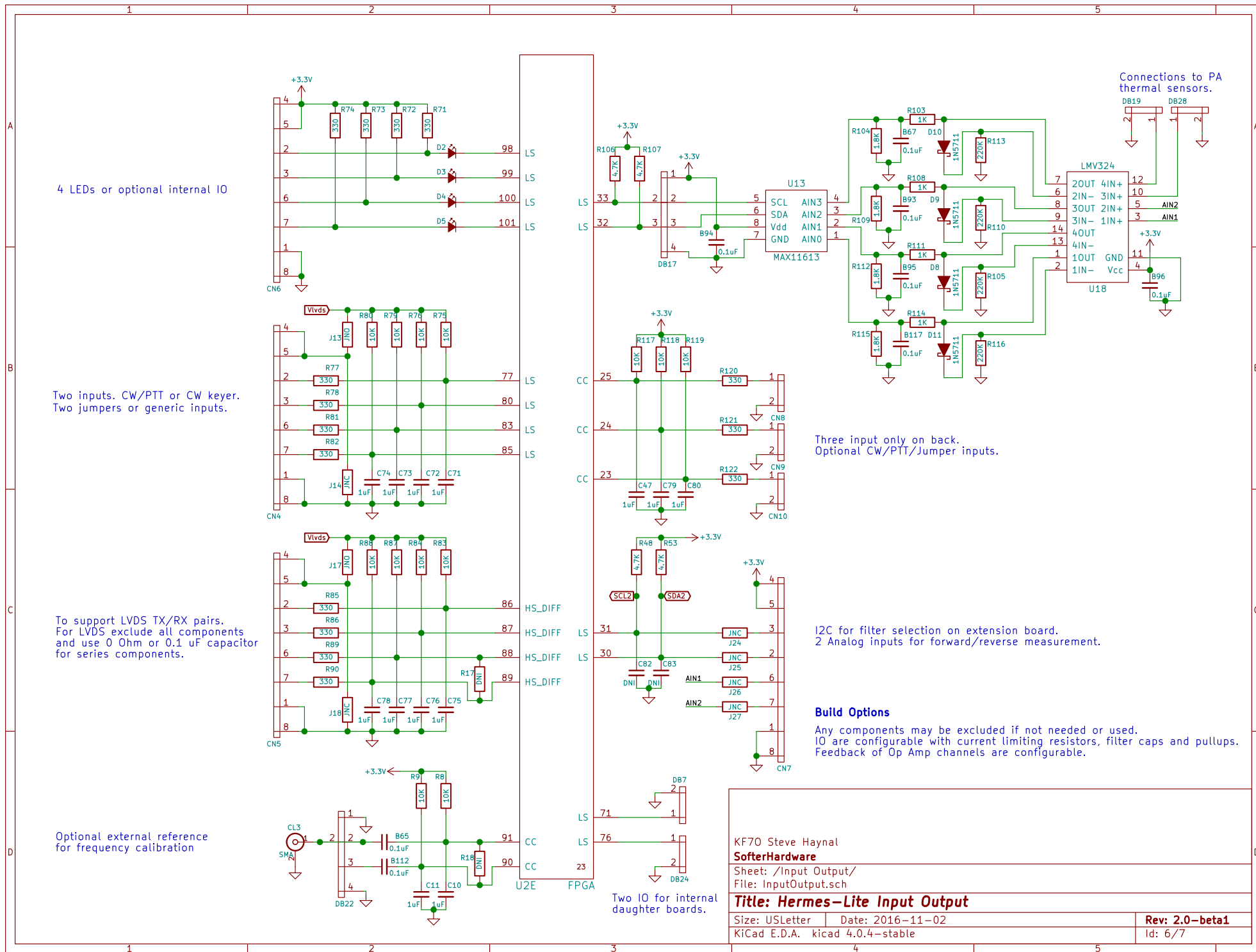
Synchronized radio external clock:
Include CL1,B58,R39.
Exclude J23,J25.

Synchronized radio recovered clock:
Include J23,J5.
Adjust R39,R40.
Optional CL1,B58.



Build Options:
Output for synchronized radio: Include R45,CL2.





KF70 Steve Haynal

SofterHardware

Sheet: /Input Output/
File: InputOutput.sch

Title: Hermes-Lite Input Output

Size: USLetter Date: 2016-11-02

KiCad E.D.A. kicad 4.0.4-stable

Rev: 2.0-beta1

Id: 6/7

All values are first-cut place holders. To be refined with simulation and experimentation.

Build Options

Any or all components may be excluded if PA is unused.

SOT-89 or TO-220 LDMOS supported on main circuit board.
TO-220 mounts to side of enclosure.
SOT-89 dissipates heat to PCB and side of enclosure.

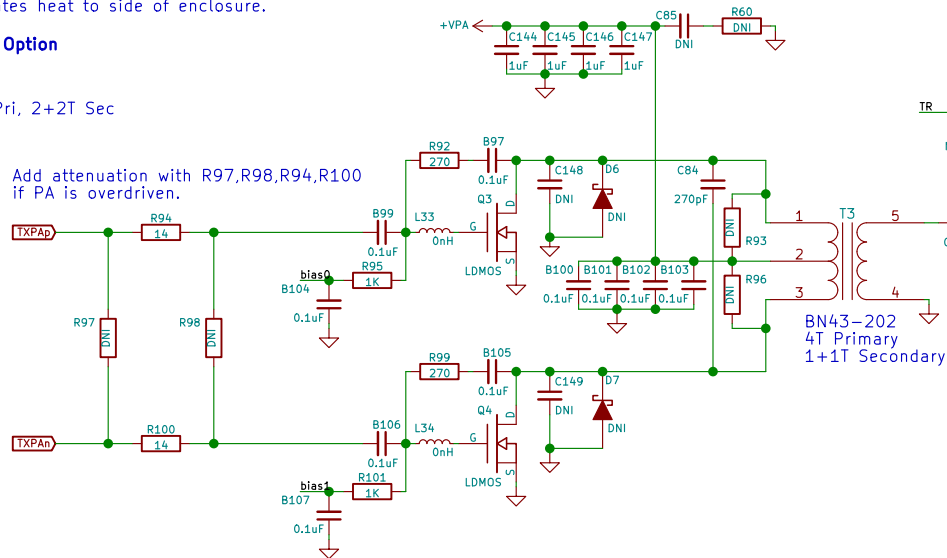
Deafult build uses 2 AFT05MS003 mounted on main board, 110mA bias.

PLD-1.5 and alternate SOT-89 supported by adapter board.
Adapter board dissipates heat to side of enclosure.

RD15HVF1 Test Build Option

L33,L34 = 4.7 Ohm
R92,R99 = 500 Ohm
T3 = BN61-202 4T Pri, 2+2T Sec
200 mA bias

Add attenuation with R97,R98,R94,R100
if PA is overdriven.



Build Options

Leave relay off for external filter board
Tap RX and TX at relay through holes
Extra grounds on relay footprint

