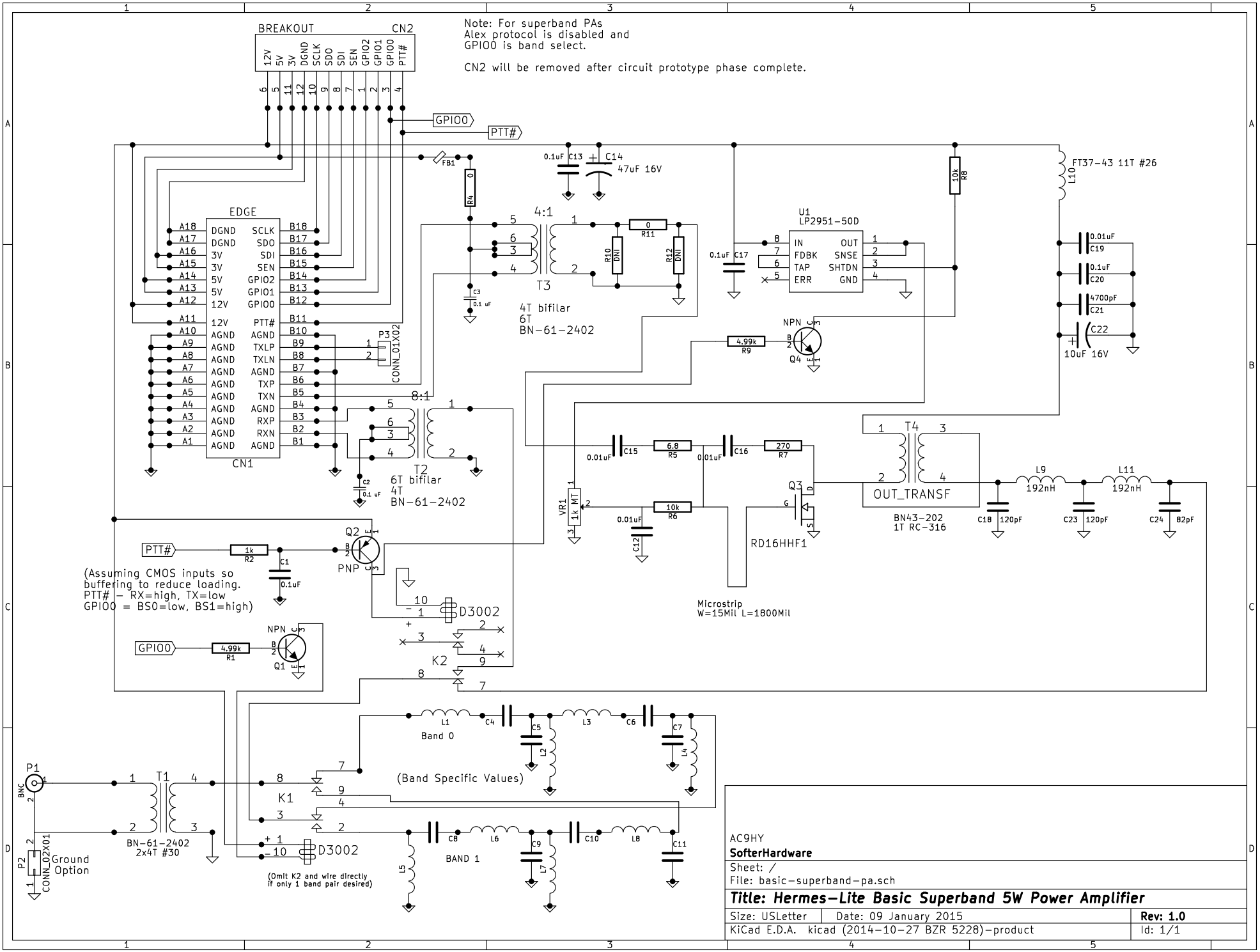
BREAKOUT
CN2
12V 5V 3V DGND SCLK SDO SDI SEN GPIO2 GPIO1 GPIO0 PTT#
Note: For superband PAs
Alex protocol is disabled and
GPIO0 is band select.
CN2 will be removed after circuit prototype phase complete.
GPIO0
PTT#
FB1
R4 0
0.1uF C13
C14 47uF 16V
EDGE
CN1
P3 CONN_01X02
C3 0.1 uF
4:1
T3
R11 0
R10 DNI
R12 DNI
4T bifilar
6T
BN-61-2402
8:1
T2
6T bifilar
4T
BN-61-2402
C2 0.1 uF
U1
LP2951-50D
IN FDBK TAP ERR OUT SNSE SHTDN GND
0.1uF C17
R8 10k
L10 FT37-43 11T #26
C19 0.01uF
C20 0.1uF
C21 4700pF
C22 10uF 16V
NPN Q4
R9 4.99k
C15 0.01uF
R5 6.8
C16 0.01uF
R7 270
R6 10k
C12 0.01uF
VR1 1k MT
Q3
RD16HHF1
Microstrip
W=15Mil L=1800Mil
T4
OUT_TRANSF
BN43-202
1T RC-316
L9 192nH
L11 192nH
C18 120pF
C23 120pF
C24 82pF
PTT#
R2 1k
C1 0.1uF
Q2 PNP
(Assuming CMOS inputs so
buffering to reduce loading.
PTT# - RX=high, TX=low
GPIO0 = BS0=low, BS1=high)
D3002
K2
GPIO0
R1 4.99k
NPN Q1
L1 C4 C5 L2 L3 C6 C7 L4
Band 0
(Band Specific Values)
K1
P1 BNC
T1
BN-61-2402
2x4T #30
P2 CONN_02X01
Ground
Option
D3002
(Omit K2 and wire directly
if only 1 band pair desired)
L5 C8 L6 C9 L7 C10 L8 C11
BAND 1
AC9HY
SofterHardware
Sheet: /
File: basic-superband-pa.sch
Title: Hermes-Lite Basic Superband 5W Power Amplifier
Size: USLetter
Date: 09 January 2015
Rev: 1.0
KiCad E.D.A. kicad (2014-10-27 BZR 5228)-product
Id: 1/1