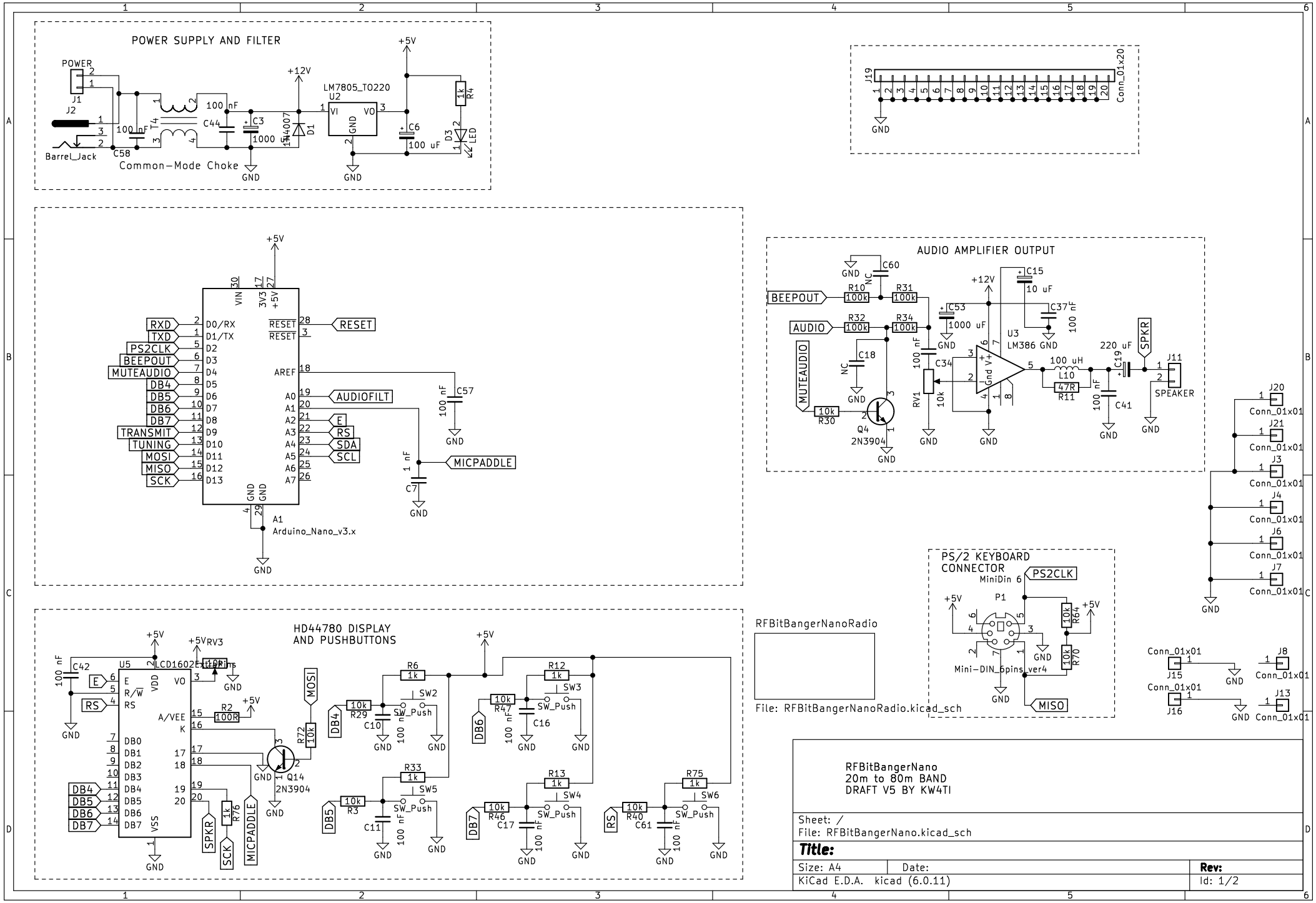
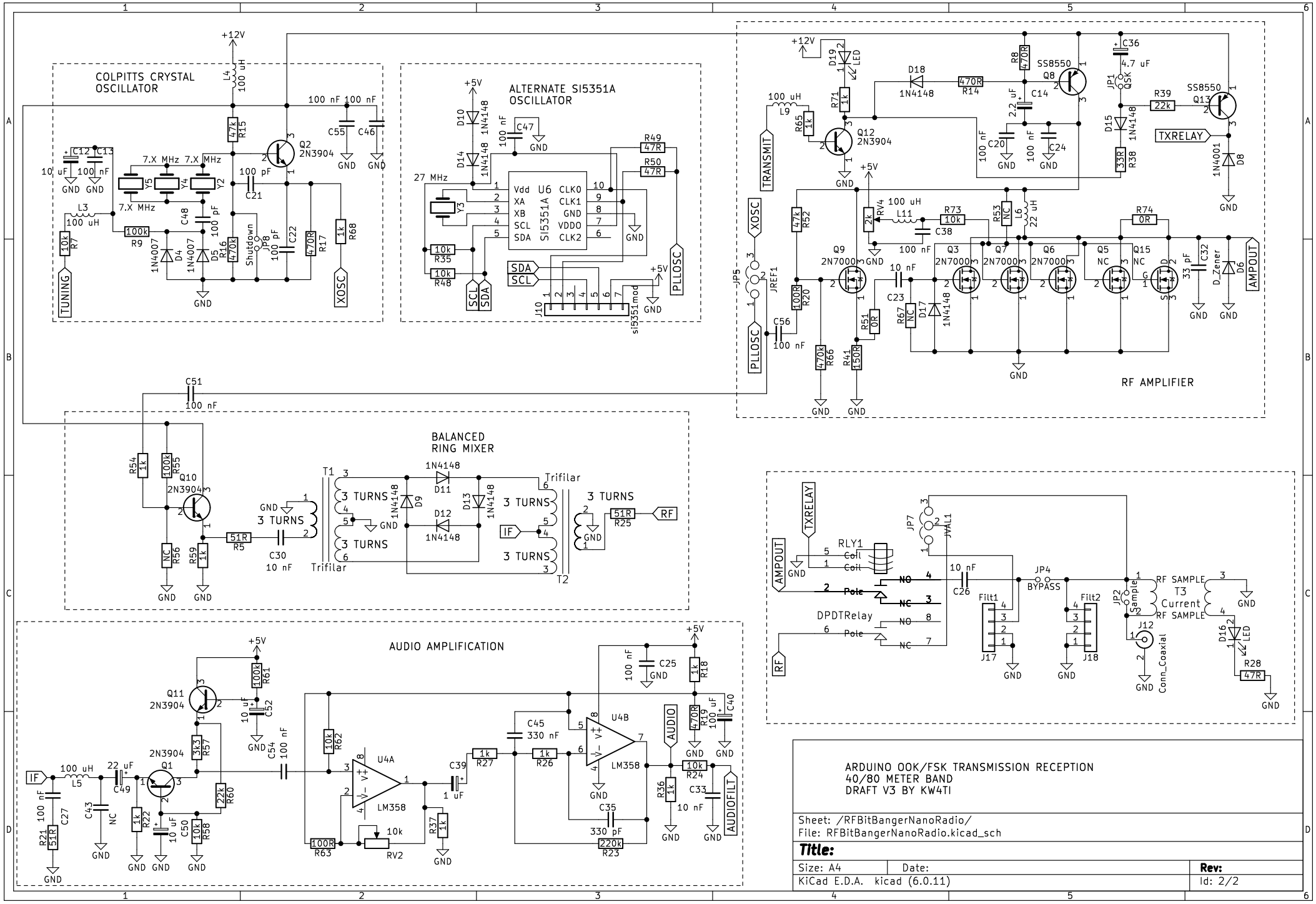

POWER SUPPLY AND FILTER
POWER
J1
J2
Barrel_Jack
C58
100 nF
T4
Common-Mode Choke
C44
C3
1000 uF
+12V
1N4007
D1
LM7805_TO220
U2
VI
VO
GND
+5V
C6
100 uF
R4
1k
D3
LED
GND
J19
Conn_01x20
AUDIO AMPLIFIER OUTPUT
BEEPOUT
AUDIO
MUTEAUDIO
R10
100k
R31
100k
R32
100k
R34
100k
C60
NC
C53
1000 uF
C15
10 uF
C37
100 nF
U3
LM386
C18
C34
RV1
10k
R30
10k
Q4
2N3904
L10
100 uH
R11
47R
C19
220 uF
C41
100 nF
SPKR
J11
SPEAKER
J20
J21
J3
J4
J6
J7
Conn_01x01
A1
Arduino_Nano_v3.x
VIN
3V3
+5V
RXD
TXD
PS2CLK
BEEPOUT
MUTEAUDIO
DB4
DB5
DB6
DB7
TRANSMIT
TUNING
MOSI
MISO
SCK
D0/RX
D1/TX
RESET
AREF
A0
A1
A2
A3
A4
A5
A6
A7
AUDIOFILT
E
RS
SDA
SCL
MICPADDLE
C57
100 nF
C7
1 nF
HD44780 DISPLAY
AND PUSHBUTTONS
U5
LCD1602
RV3
100k
C42
100 nF
R2
100R
R72
10k
Q14
2N3904
MOSI
SPKR
SCK
MICPADDLE
R76
1k
R6
1k
R12
1k
R33
1k
R13
1k
R75
1k
R29
10k
R47
10k
R3
10k
R46
10k
R40
10k
SW2
SW3
SW5
SW4
SW6
SW_Push
C10
C16
C11
C17
C61
100 nF
PS/2 KEYBOARD
CONNECTOR
MiniDin 6
P1
PS2CLK
MISO
R64
10k
R70
10k
Mini-DIN_6pins_ver4
J15
J16
J8
J13
Conn_01x01
RFBitBangerNanoRadio
File: RFBitBangerNanoRadio.kicad_sch
RFBitBangerNano
20m to 80m BAND
DRAFT V5 BY KW4TI
Sheet: /
File: RFBitBangerNano.kicad_sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. kicad (6.0.11)
Id: 1/2


COLPITTS CRYSTAL OSCILLATOR
ALTERNATE SI5351A OSCILLATOR
RF AMPLIFIER
BALANCED RING MIXER
AUDIO AMPLIFICATION
ARDUINO OOK/FSK TRANSMISSION RECEPTION
40/80 METER BAND
DRAFT V3 BY KW4TI
Sheet: /RFBitBangerNanoRadio/
File: RFBitBangerNanoRadio.kicad_sch
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Size: A4
Date:
Rev:
KiCad E.D.A. kicad (6.0.11)
Id: 2/2