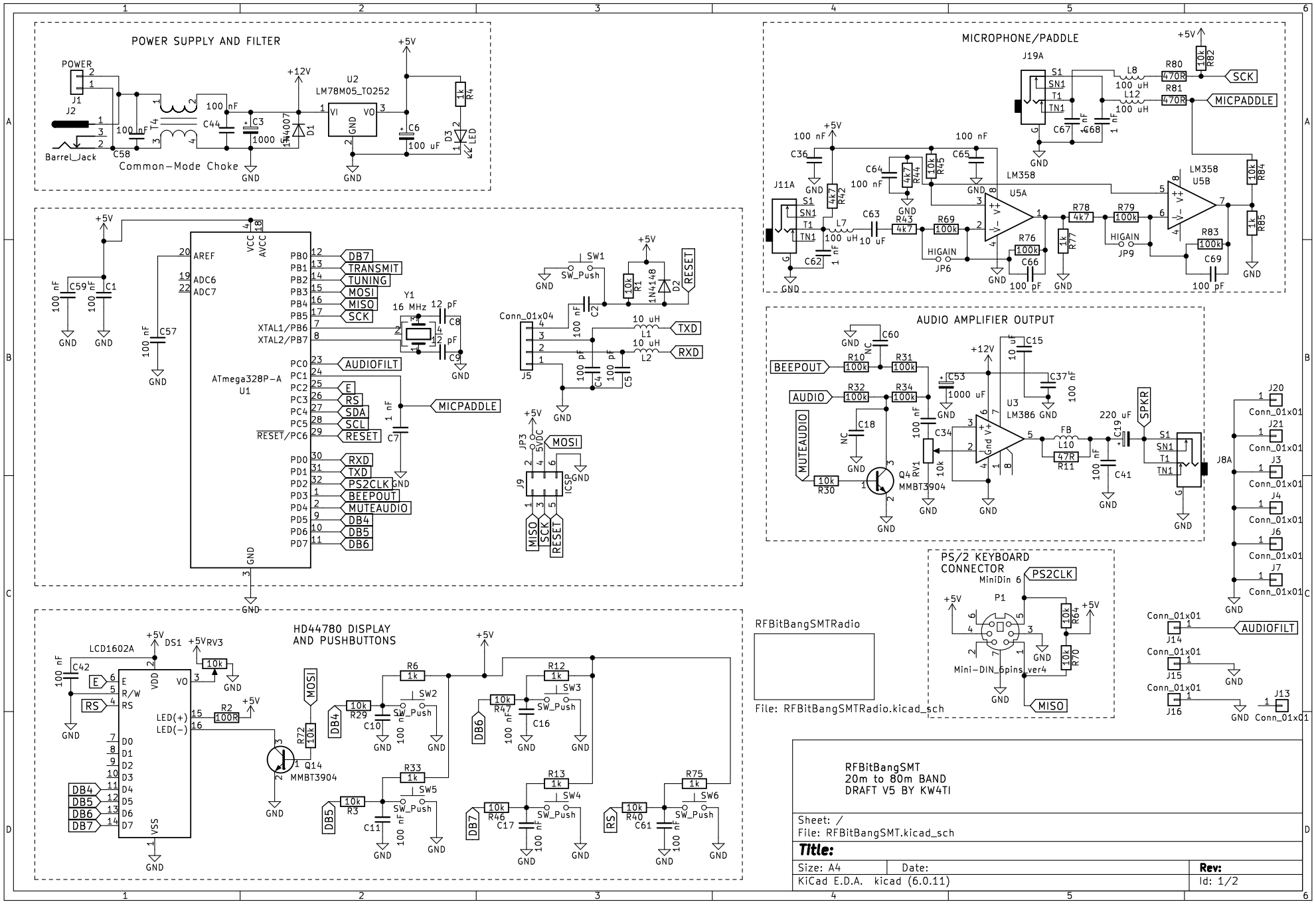
POWER SUPPLY AND FILTER
POWER
J1
J2
Barrel_Jack
C58
100 nF
T4
Common-Mode Choke
C44
100 nF
C3
1000 uF
1N4007
D1
+12V
U2
LM78M05_TO252
VI
VO
GND
+5V
C6
100 uF
R4
1k
D3
LED
GND
MICROPHONE/PADDLE
J19A
S1
SN1
T1
TN1
L8
100 uH
L12
100 uH
R80
470R
R81
470R
R82
10k
SCK
MICPADDLE
C67
1 nF
C68
1 nF
J11A
C36
100 nF
C64
100 nF
R44
4k7
R45
10k
C65
100 nF
R42
4k7
L7
100 uH
C62
1 nF
C63
10 uF
R43
4k7
R69
100k
HIGAIN
JP6
LM358
U5A
R76
100k
C66
100 pF
R78
4k7
R77
1k
R79
100k
HIGAIN
JP9
LM358
U5B
R83
100k
C69
100 pF
R84
10k
R85
1k
AUDIO AMPLIFIER OUTPUT
BEEPOUT
R10
100k
R31
100k
C60
NC
AUDIO
R32
100k
R34
100k
MUTEAUDIO
R30
10k
C18
NC
Q4
MMBT3904
C53
1000 uF
C34
100 nF
RV1
10k
U3
LM386
C15
10 uF
C37
100 nF
FB
L10
47R
R11
C19
220 uF
C41
100 nF
SPKR
S1
SN1
T1
TN1
J8A
J20
J21
J3
J4
J6
J7
Conn_01x01
AUDIOFILT
J14
J15
J16
J13
Conn_01x01
ATmega328P-A
U1
AREF
ADC6
ADC7
VCC
AVCC
PB0
PB1
PB2
PB3
PB4
PB5
XTAL1/PB6
XTAL2/PB7
PC0
PC1
PC2
PC3
PC4
PC5
RESET/PC6
PD0
PD1
PD2
PD3
PD4
PD5
PD6
PD7
DB7
TRANSMIT
TUNING
MOSI
MISO
SCK
AUDIOFILT
E
RS
SDA
SCL
RESET
RXD
TXD
PS2CLK
BEEPOUT
MUTEAUDIO
DB4
DB5
DB6
Y1
16 MHz
12 pF
C8
12 pF
C9
C59
100 nF
C1
100 nF
C57
100 nF
C7
1 nF
SW1
SW_Push
R1
10k
1N4148
D2
RESET
Conn_01x04
J5
C2
100 nF
L1
10 uH
L2
10 uH
C4
100 pF
C5
100 pF
JP3
5VDC
J9
ICSP
MISO
SCK
RESET
MOSI
HD44780 DISPLAY
AND PUSHBUTTONS
LCD1602A
DS1
RV3
10k
C42
100 nF
E
RS
R/W
VDD
VO
LED(+)
LED(-)
R2
100R
D0
D1
D2
D3
D4
D5
D6
D7
VSS
DB4
DB5
DB6
DB7
R72
10k
Q14
MMBT3904
R6
1k
SW2
R29
10k
C10
100 nF
R12
1k
SW3
R47
10k
C16
100 nF
R33
1k
SW5
R3
10k
C11
100 nF
R13
1k
SW4
R46
10k
C17
100 nF
R75
1k
SW6
R40
10k
C61
100 nF
PS/2 KEYBOARD
CONNECTOR
MiniDin 6
P1
Mini-DIN_6pins_ver4
R64
10k
R70
10k
RFBitBangSMTRadio
File: RFBitBangSMTRadio.kicad_sch
RFBitBangSMT
20m to 80m BAND
DRAFT V5 BY KW4TI
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Rev:
KiCad E.D.A. kicad (6.0.11)
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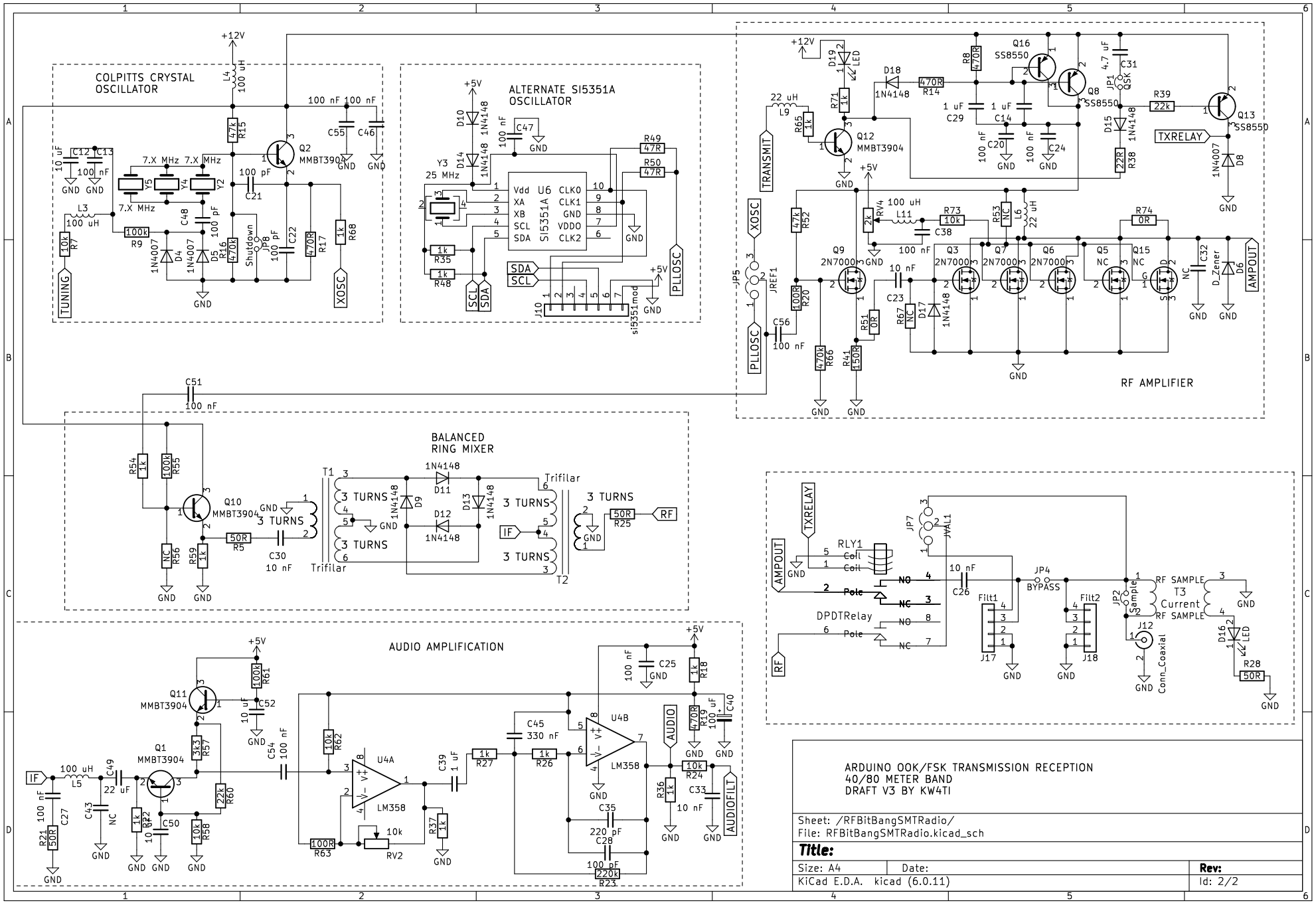
COLPITTS CRYSTAL OSCILLATOR
ALTERNATE SI5351A OSCILLATOR
RF AMPLIFIER
BALANCED RING MIXER
AUDIO AMPLIFICATION
ARDUINO OOK/FSK TRANSMISSION RECEPTION
40/80 METER BAND
DRAFT V3 BY KW4TI
Sheet: /RFBitBangSMTRadio/
File: RFBitBangSMTRadio.kicad_sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. kicad (6.0.11)
Id: 2/2