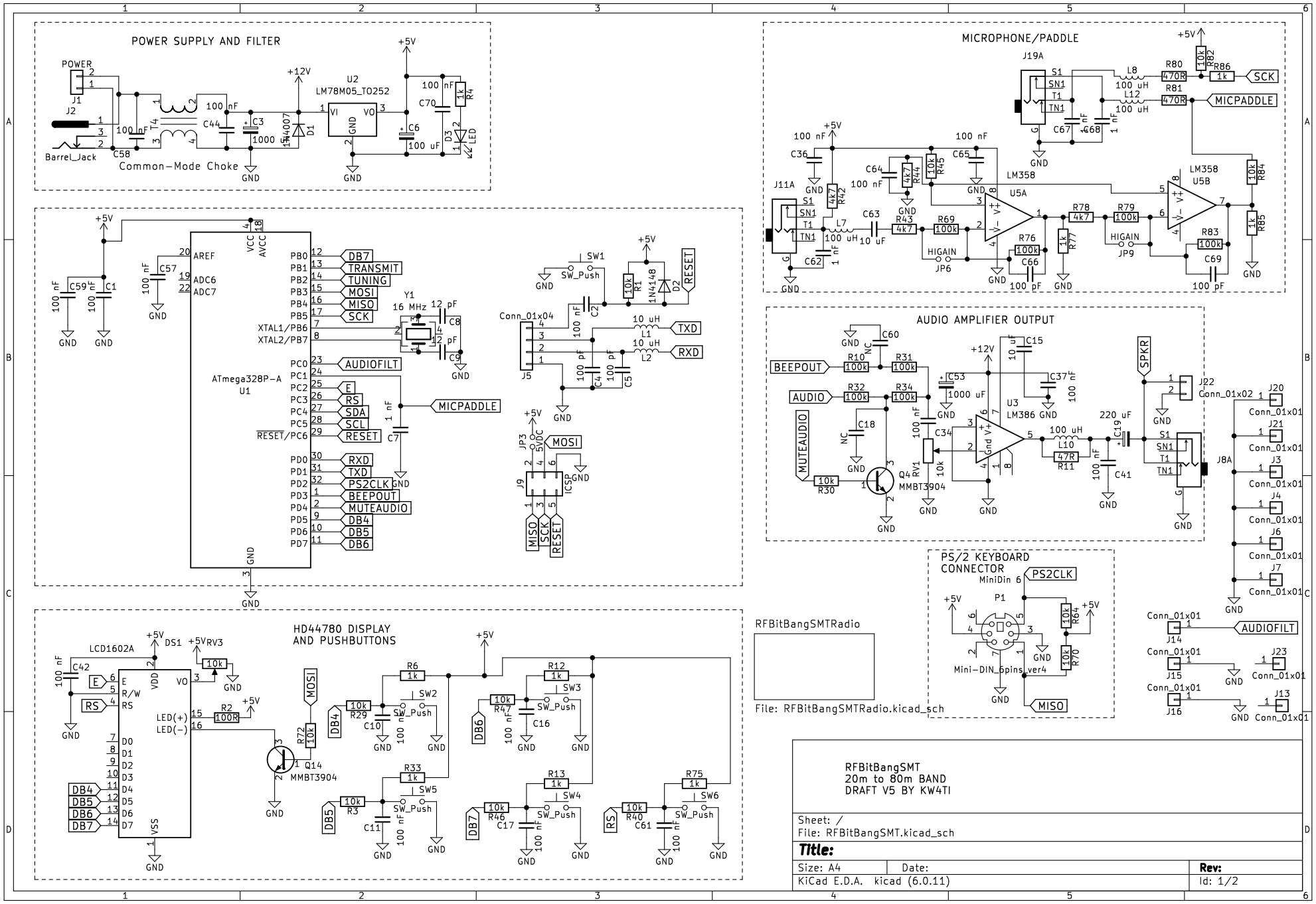
POWER SUPPLY AND FILTER
POWER
J1
J2
Barrel_Jack
C58
100 nF
T4
Common-Mode Choke
C44
C3
1000 uF
+12V
1N4007
D1
U2
LM78M05_TO252
VI
VO
GND
+5V
C6
100 uF
C70
D3
LED
R4
1k
MICROPHONE/PADDLE
J19A
S1
SN1
T1
TN1
L8
100 uH
L12
R80
470R
R81
R82
10k
R86
1k
SCK
MICPADDLE
C67
C68
1 nF
J11A
C36
C64
C65
R42
4k7
R44
R45
10k
LM358
U5A
U5B
C63
10 uF
L7
C62
R43
R69
100k
HIGAIN
JP6
R76
C66
100 pF
R78
R79
JP9
R83
C69
R84
R85
1k
R77
AUDIO AMPLIFIER OUTPUT
BEEPOUT
AUDIO
MUTEAUDIO
R10
R31
R32
R34
C60
C15
C53
1000 uF
C37
100 nF
U3
LM386
C18
Q4
MMBT3904
R30
RV1
C34
L10
47R
R11
220 uF
C19
C41
SPKR
J22
Conn_01x02
J8A
J20
J21
J3
J4
J6
J7
Conn_01x01
ATmega328P-A
U1
AREF
VCC
AVCC
ADC6
ADC7
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
C9
C57
C59
C1
C7
1 nF
SW1
SW_Push
R1
10k
1N4148
D2
Conn_01x04
J5
C2
C4
C5
100 pF
10 uH
L1
L2
JP3
J9
ICSP
5VDC
PS/2 KEYBOARD CONNECTOR
MiniDin 6
P1
Mini-DIN_6pins_ver4
R64
R70
AUDIOFILT
J14
J15
J16
J23
J13
RFBitBangSMTRadio
File: RFBitBangSMTRadio.kicad_sch
HD44780 DISPLAY AND PUSHBUTTONS
LCD1602A
DS1
RV3
R2
100R
LED(+)
LED(-)
VDD
VO
VSS
D0
D1
D2
D3
D4
D5
D6
D7
R/W
C42
R72
Q14
MMBT3904
R6
R12
R33
R13
R75
R29
R47
R3
R46
R40
C10
C16
C11
C17
C61
SW2
SW3
SW4
SW5
SW6
RFBitBangSMT
20m to 80m BAND
DRAFT V5 BY KW4TI
Sheet: /
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Size: A4
Date:
Rev:
KiCad E.D.A. kicad (6.0.11)
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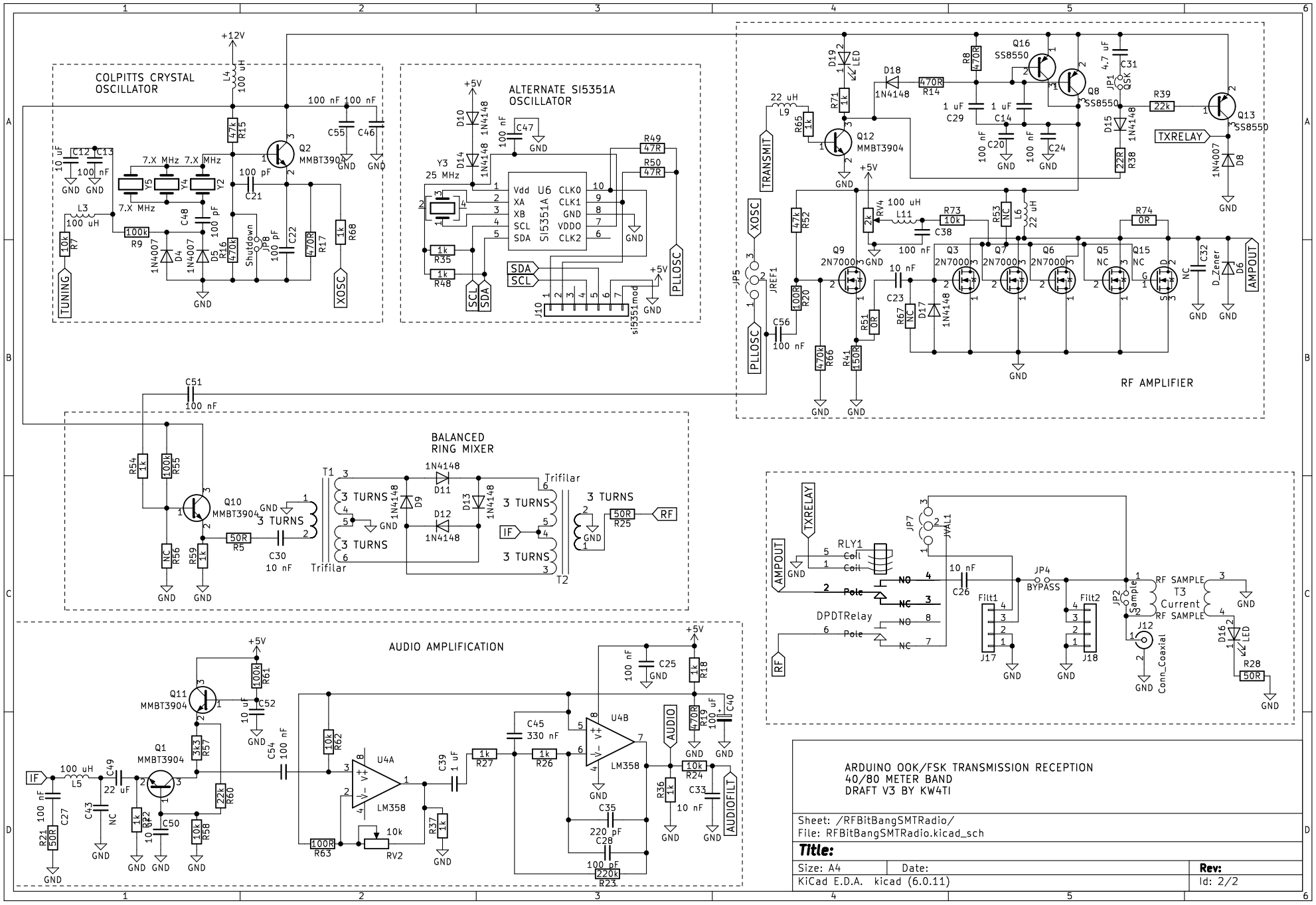
COLPITTS CRYSTAL OSCILLATOR
ALTERNATE SI5351A OSCILLATOR
RF AMPLIFIER
BALANCED RING MIXER
AUDIO AMPLIFICATION
ARDUINO OOK/FSK TRANSMISSION RECEPTION
40/80 METER BAND
DRAFT V3 BY KW4TI
Sheet: /RFBitBangSMTRadio/
File: RFBitBangSMTRadio.kicad_sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. kicad (6.0.11)
Id: 2/2