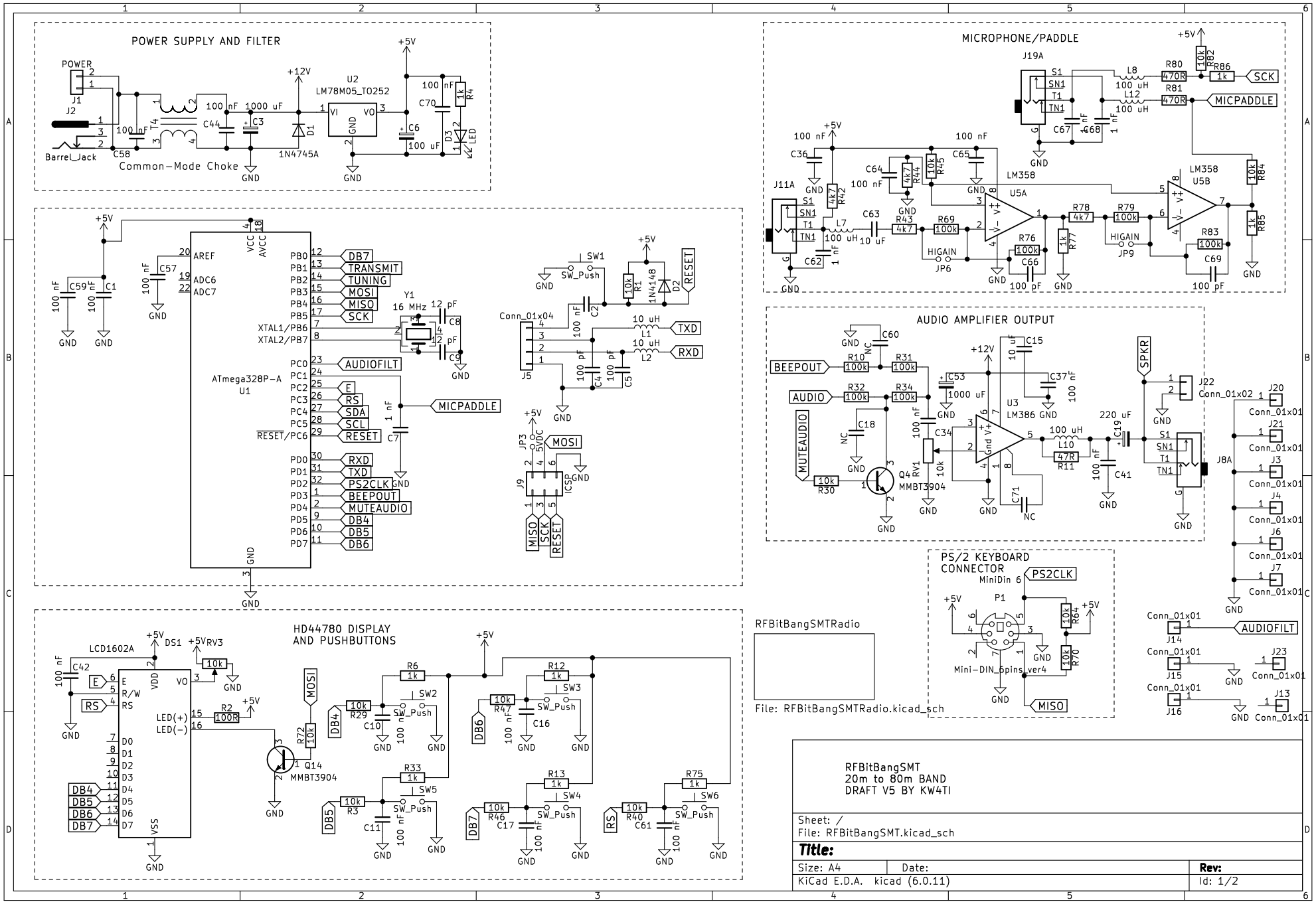
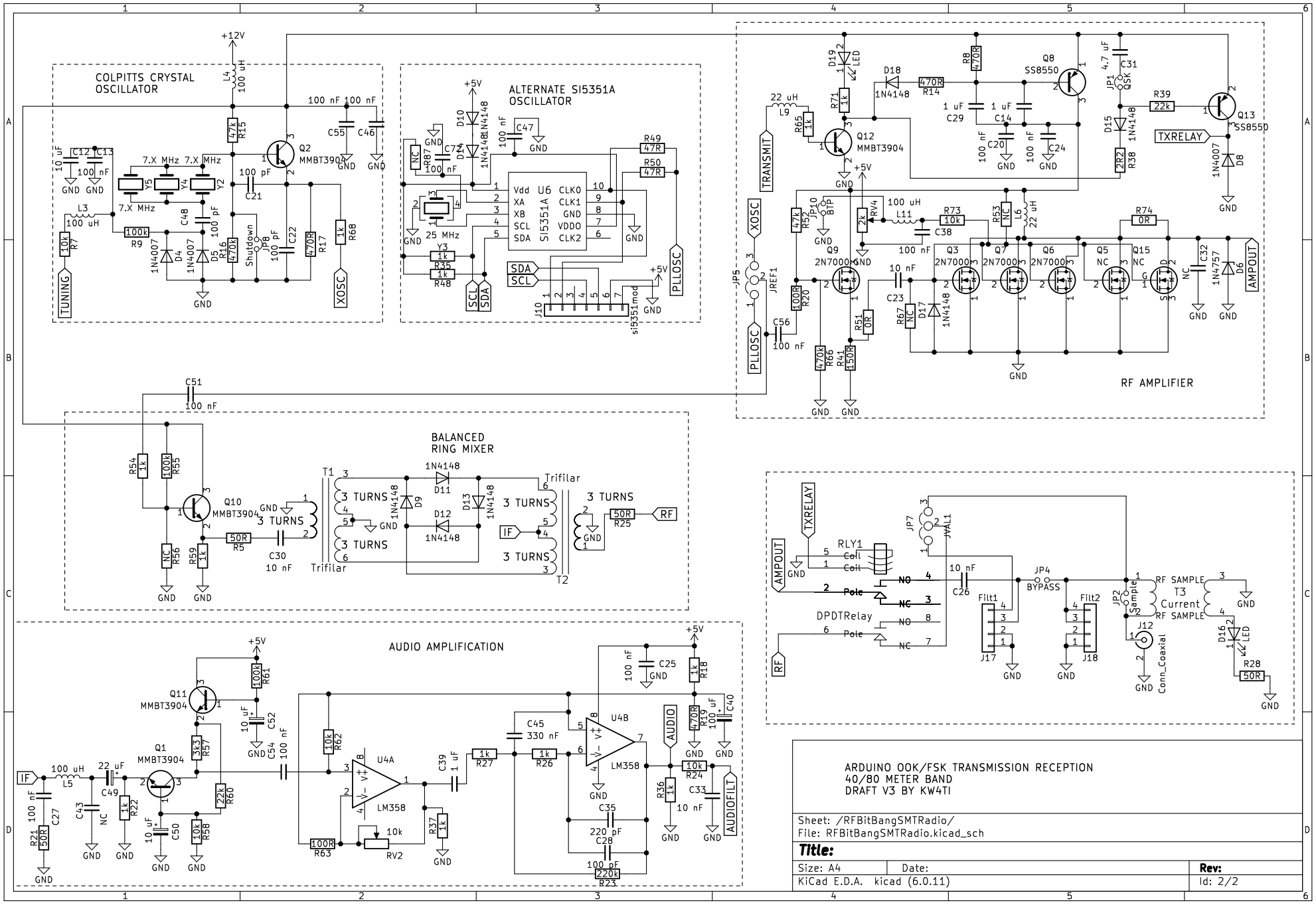

POWER SUPPLY AND FILTER
POWER
J1
J2
Barrel_Jack
C58
100 nF
T4
Common-Mode Choke
C44
100 nF
1000 uF
C3
+12V
D1
1N4745A
U2
LM78M05_TO252
VI
VO
GND
+5V
100 nF
C70
1k
R4
C6
100 uF
D3
LED
MICROPHONE/PADDLE
J19A
S1
SN1
T1
TN1
L8
100 uH
L12
100 uH
R80
470R
R81
470R
R82
10k
R86
1k
SCK
MICPADDLE
C67
1 nF
C68
1 nF
J11A
C36
100 nF
C64
100 nF
4k7
R44
10k
R45
C65
100 nF
4k7
R42
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
C60
NC
R31
100k
AUDIO
R32
100k
R34
100k
MUTEAUDIO
C18
NC
R30
10k
Q4
MMBT3904
C53
1000 uF
C34
100 nF
RV1
10k
U3
LM386
C15
10 uF
C37
100 nF
C71
NC
L10
47R
R11
100 uH
C19
220 uF
C41
100 nF
SPKR
J22
Conn_01x02
J8A
S1
SN1
T1
TN1
J20
J21
J3
J4
J6
J7
Conn_01x01
PS/2 KEYBOARD CONNECTOR
MiniDin 6
PS2CLK
P1
Mini-DIN_6pins_ver4
R64
10k
R70
10k
MISO
RFBitBangSMTRadio
File: RFBitBangSMTRadio.kicad_sch
J14
AUDIOFILT
J15
J16
J23
J13
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
C9
C59
C1
C57
C7
1 nF
MICPADDLE
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
ICSP
J9
MISO
SCK
RESET
HD44780 DISPLAY AND PUSHBUTTONS
LCD1602A
DS1
RV3
10k
C42
100 nF
E
RS
R/W
VDD
VO
R2
100R
LED(+)
LED(-)
D0
D1
D2
D3
D4
D5
D6
D7
VSS
DB4
DB5
DB6
DB7
MOSI
R72
10k
Q14
MMBT3904
R6
1k
R29
10k
C10
100 nF
SW2
SW_Push
R12
1k
R47
10k
C16
100 nF
SW3
SW_Push
R33
1k
R3
10k
C11
100 nF
SW5
SW_Push
R13
1k
R46
10k
C17
100 nF
SW4
SW_Push
R75
1k
R40
10k
C61
100 nF
SW6
SW_Push
RFBitBangSMT
20m to 80m BAND
DRAFT V5 BY KW4TI
Sheet: /
File: RFBitBangSMT.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: /RFBitBangSMTRadio/
File: RFBitBangSMTRadio.kicad_sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. kicad (6.0.11)
Id: 2/2