QSE CLK 1
QSE CLK 2
5 VDC

R54 10
C73 0.1uF

C50 0.1uF
R55 10k
Q13 2N3904
R58 1k
C45 22pF
C43 100pF
Q14 2N3906
R59
R56 10k
C44
R57 499
R60 499

U5 74HC74
VCC
2 D
3 CLK
1 /CLR
4 /PRE
Q 5
/Q 6
GND 7
14

U6 74HC74
VCC
2 D
3 CLK
1 /CLR
4 /PRE
Q 5
/Q 6
GND 7
14

U6 74HC74
12 D
11 CLK
13 /CLR
10 /PRE
Q 9
/Q 8

C69 0.1uF

QSD CIRCUIT
U7 FST3253
14 S0
2 S1
6 1B1
3 1B4
11 2B2
12 2B3
1 /OE1
15 /OE2
1B2 5
1B3 4
2B1 10
2B4 13
1A 7
2A 9
8
16

JP2
1
X1   X2

x4 x8
JP1

U5 74HC74
12 D
11 CLK
13 /CLR
10 /PRE
Q 9
/Q 8

Notes:
Use 28.xx MHz crystals
omit C44 and R59

R47 10
R46 10
R45 10k

RX MUTE
C68 0.1uF

R51 10
R50 10

L4 1.6uH
T4
RX ANT
C37 680pF

C41 1500pF
R53 1.00k
R48 1k
C40 1500pF
R52 1.00k

R49 1k

2
3
1
8
4
U8 TLV2462

6
5
7
U8 TLV2462

C66 0.1uF
C42 10uF
C67 0.1uF

C39 0.047uF
C38 0.047uF
C70 0.1uF

C71 0.1uF
LINE-IN T
TO TIP OF 3.5mm PLUG

C72 0.1uF
LINE-IN R
TO RING of 3.5mm PLUG

40m/80m kit
L4 1.6uH, 19T of #30, (10 in.), on T30-2 core (red)
T4 1.2uH primary, 17T of #30, (9 in.), on T30-2 core (red)
T4 secondaries 8T of #30, (2 x 5 in.), wound bifilar

Note: Components mounted to the bottom of the
board include size 1206 SMT capacitors
C50 through C73 and SOICs U1, U2, U3,
U5, U6, U7 and U8

SoftRock Projects

G0BBL-M0PUB-G8BTR 40m/80m RXTXv6.2

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