

# Bill of materials for SoftRock RXTXv6.2 board, 40m / 80m Kit

Tony, KB9YIG, 6/8/07

	used where	quantity	packed in	Notes
<b>Resistors</b>				
22.1, 1/4 W, 1%	R1, R21	2	R bag	
1.00k, 1/4 W, 1%	R2, R48, R49, R52, R53, R58	6	R bag	
10.0k, 1/4 W, 1%	R3, R4, R6, R7, R9, R10, R12, R13, R35, R36, R41, R45, R55, R56	14	R bag	
49.9, 1/4W, 1%	R5, R8, R11, R14, R19, R20, R44	7	R bag	
2.21k, 1/4W, 1%	R15, R16, R18, R22, R25, R33	6	R bag	
3.32k, 1/4W, 1%	R17	1	R bag	
475, 1/4 W, 1%	R23	1	R bag	
56.2, 1/4 W, 1%	R24	1	R bag	
33.2, 1/4 W, 1%	R26	1	R bag	
221, 1/4 W, 1%	R27, R29, R30, R42	4	R bag	
22.1k, 1/4W, 1%	R28, R40, R43	3	R bag	4 included in kit
2.2, 1/4W, 5%	R31, R32	2	R bag	
4.99k, 1/4W, 1%	R34, R37, R38, R39	4	R bag	6 included in kit
10.0, 1/4 W, 1%	R46, R47, R50, R51, R54	5	R bag	
499, 1/4W, 1%	R57, R60	2	R bag	
omit	R59			R59 not used
<b>Capacitors</b>				
10uF/16 VDC Electrolytic	C1, C3, C5, C7, C10, C12, C14, C16, C17, C20, C25, C26			
	C27, C28, C29, C30, C31, C32, C33, C34, C35, C42	22	C bag	
0.001uF, ceramic, 10%	C2, C9	2	C bag	
100pF, ceramic, 5%	C4, C11, C43	3	C bag	
0.022uF, ceramic, 5%	C6, C8, C13, C15	4	C bag	
220pF, ceramic, 5%	C18, C19	2	C bag	
470pF, ceramic, 5%	C21, C23	2	C bag	
820pF, ceramic, 5%	C22	2	C bag	
560pF, ceramic, 5%	C24	1	C bag	
0.033uF, ceramic, 10%	C36	1	C bag	
680pF, ceramic, 5%	C37	1	C bag	
0.047uF, ceramic, 5%	C38, C39	2	C bag	
1500pF, ceramic, 5%	C40, C41	2	C bag	
22pF, ceramic, 5%	C45	1	C bag	
0.1uF, smt 1206	C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62			
	C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73	24	C bag	26 included in kit C44 not used
omit	C44			
<b>Inductor / transformer cores and wire</b>				
T30-6	L1, L4, T1, T4	4	core bag	
T37-6	L2, L3	2	core bag	
BN-43-2402	T2, T3, RFC1	3	core bag	
#26 magnet wire	L2, L3, RFC1	3 feet	core bag	
#30 magnet wire	L1, L2, T1, T2, T3, T4	12 feet	core bag	
<b>Crystals</b>				
28.06 MHz and / or 28.224 MHz	X1	1	xtal bag	kit crystal option
40.5 MHz	X2	1	xtal bag	
<b>Integrated circuits</b>				
TLV2462CD op-amp, SOIC 8	U1, U2, U8	3	IC bag	
FST3253 or SN74CBT3253D, SOIC 16	U3, U7	2	IC bag	
78L05, 5v voltage regulator, TO92	U4	1	IC bag	
74HC74, SOIC 14	U5, U6	2	IC bag	
<b>Transistors</b>				
BS170 FET, TO92	Q1, Q3, Q5, Q6, Q7, Q8	6	IC bag	
2N2222A, TO18	Q2	1	diode bag	
2N3904 NPN, TO902	Q4, Q9, Q11, Q12, Q13	5	diode bag	
2N3906 PNP, TO92	Q10, Q14	2	diode bag	
<b>Diodes</b>				
1N4003	D1, D2, D3	3	diode bag	
<b>Connectors</b>				
three-pin header, 0.1 inch centers	JP2	2	diode bag	
jumper plug	JP2	2	diode bag	
<b>Circuit boards</b>				
RXTXv6.2	RXTXv6.2 circuit board	1	outer pack	
<b>Hardware</b>				
3/8 inch 4-40 phillips pan head machine screw	mounting hardware for board	4	h/w bag	
4-40 hex nut	mounting hardware for board	4	h/w bag	
1/8 inch #4 nylon spacer	mounting hardware for board	4	h/w bag	
#4 nylon washer	mounting hardware for board and Q2 spacer	5	h/w bag	
TO18 heat sink	Q2 heat sink	1	h/w bag	
TO220 heat sink	Q3, Q5, Q6 heat sink	1	h/w bag	
1/2 inch 6-32 phillips pan head machine screw	Q3, Q5, Q6 heat sink	1	h/w bag	
6-32 hex nut	Q3, Q5, Q6 heat sink	1	h/w bag	
#6 star washer	Q3, Q5, Q6 heat sink	1	h/w bag	
Sil-Pad, TO220 size	Q3, Q5, Q6 heat sink	1	core bag	