

# Bill of materials for SoftRock RXTXv6.2 board, 160m Kit

Tony, KB9YIG, 7/29/07

	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, C18	3	C bag	
100pF, ceramic, 5%	C4, C11, C44	3	C bag	
0.022uF, ceramic, 5%	C6, C8, C13, C15	4	C bag	
270pF, ceramic, 5%	C19	1	C bag	
2200pF, ceramic, 10%	C21, C23	2	C bag	
4700pF, ceramic, 10%	C22	1	C bag	
390pF, ceramic, 5%	C24	1	C bag	
0.033uF, ceramic, 10%	C36	1	C bag	
5600pF, ceramic, 10%	C37	1	C bag	
0.047uF, ceramic, 5%	C38, C39	2	C bag	
1500pF, ceramic, 5%	C40, C41	2	C bag	
220pF, ceramic, 5%	C43	1	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 C46, C47, C48, C49	24	C bag	26 included in kit
capacitor designators not used				
<b>Inductor / transformer cores and wire</b>				
T30-2 (red)	L4, T4	2	core bag	
T37-2 (red)	L1, L2, L3, T1	4	core bag	
BN-43-2402	T2, T3, RFC1	3	core bag	
#26 magnet wire	L2, L3, RFC1	5 feet	core bag	
#30 magnet wire	L1, L4, T1, T2, T3, T4	15 feet	core bag	
<b>Crystals</b>				
14.5 MHz	X1	1	xtal bag	
14.745 MHz	X2	1	xtal bag	
15.36 MHz	X2 option	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	1	diode bag	
jumper plug	JP2	1	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	