

Bill of materials for SoftRock RXTXv6.1 board, 40m / 30m

Tony, KB9YIG, 1/28/07

	used where	quantity	packed in	Notes
Resistors				
22.1, 1/4 W, 1%	R1, R21	2	R bag	
1.00k, 1/4 W, 1%	R2, R28, R45, R46, R49, R50, R55	7	R bag	
10.0k, 1/4 W, 1%	R3, R4, R6, R7, R9, R10, R12, R13, R36, R37, R39, R42, R52, R53	14	R bag	
49.9, 1/4W, 1%	R5, R8, R11, R14, R19, R20, R58	7	R bag	
2.21k, 1/4W, 1%	R15, R16, R22, R32	4	R bag	
3.32k, 1/4W, 1%	R17	1	R bag	
1.5k, 1/4 W, 1%	R18	1	R bag	
475, 1/4 W, 1%	R23	1	R bag	
56.2, 1/4 W, 1%	R24	1	R bag	
10.0, 1/4 W, 1%	R43, R44, R47, R48, R51	5	R bag	
221, 1/4 W, 1%	R26, R27, R41	3	R bag	
10k pot	R29	1	R bag	
2.2, 1/4W, 5%	R30, R31	2	R bag	
4.99k, 1/4W, 1%	R33, R34, R35	5	R bag	2 extra included in kit
22.1k, 1/4 W, 1%	R38, R40, R56	3	R bag	
499, 1/4W, 1%	R54, R57	2	R bag	
omit for 40m / 30m operation	R25, R59	2		
Capacitors				
10uF/16 VDC Electrolytic	C1, C5, C7, C12, C14, C16, C17, C23, C28, C29, C30, C31			
	C32, C33, C34, C35, C36, C37, C38, C43	20	C bag	
0.001uF, ceramic, 10%	C2, C9	2	C bag	
0.1uF, ceramic, 10%	C3, C10	2	C bag	
100pF, ceramic, 5%	C4, C11, C48	3	C bag	
0.022uF, ceramic, 5%	C6, C8, C13, C15	4	C bag	
820pF, ceramic, 5%	C18, C21, C25, C40, C42	5	C bag	
330pF, ceramic, 5%	C19, C41	2	C bag	
0.01uF, ceramic, 10%	C20, C27	2	C bag	
470pF, ceramic, 5%	C24, C26	2	C bag	
0.033uF, ceramic, 10%	C39	1	C bag	
0.047uF, ceramic, 5%	C44, C45	2	C bag	
1500pF, ceramic, 5%	C46, C47	2	C bag	
22pF, ceramic, 5%	C50	1	C bag	
0.1uF, smt 1206	C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62		C bag	
	C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C78	27	C bag	2 extra included in kit
omit for 40m / 30m operation	C22, C49, C75, C76, C77	5		
Inductor / transformer cores and wire				
T25-6	L1, L2, L5, L6, T1, T4	6	core bag	
T37-6	L3, L4	2	core bag	
BN-43-2402	T2, T3, RFC1	3	core bag	
#26 magnet wire	L3, L4, RFC1	4 feet	core bag	
#30 magnet wire	L1, L2, L5, L6, T1, T2, T3, T4	12 feet	core bag	
Crystals				
28.224 MHz	X1	1	xtal bag	
40.5 MHz	X2	1	xtal bag	
Integrated circuits				
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	
Transistors				
2N7000 FET, TO92	Q1, Q6	2	IC bag	
2N2222A, TO18	Q2	1	diode bag	
BS170 FET, TO92	Q3, Q4	2	IC bag	
2N3906 PNP, TO92	Q5, Q11	2	diode bag	
2N3904 NPN, TO902	Q7, Q8, Q9, Q10	4	diode bag	
Diodes				
1N4732A, Zener, 4.7v	D1	1	diode bag	
1N4003	D2, D3	2	diode bag	
Connectors				
three-pin header, 0.1 inch centers	JP1, JP2	2	diode bag	
jumper plug	JP1, JP2	2	diode bag	
Circuit boards				
RXTXv6.1	RXTXv6.1 circuit board	1	outer pack	
Hardware				
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	4	h/w bag	
TO18 heat sink	Q2 heat sink	1	h/w bag	
1/4-20 x 0.5 brass round head machine screw	Q3, Q4 heat sink	1	h-sink pack	
1/4-20 brass hex nut	Q3, Q4 heat sink	1	h-sink pack	
1/4 inch brass flat washer, large pattern	Q3, Q4 heat sink	1	h-sink pack	
Sil-Pad, DO5 case size	Q3, Q4 heat sink	1	core bag	trim to brass washer OD