

Bill of materials for SoftRock RXTXv6.2 board, 15m / 17m Kit

Tony, KB9YIG, 11/18/07

	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, R48, R49	3	R bag	
10.0k, 1/4 W, 1%	R3, R4, R6, R7, R9, R10, R12, R13, R35, R36, R41, R45	12	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	
2.2, 1/4W, 5%	R31, R32	2	R bag	
4.99k, 1/4W, 1%	R34, R37, R38, R39, R52, R53	6	R bag	8 included in kit
10.0, 1/4 W, 1%	R46, R47, R50, R51	4	R bag	
10k, 1/8 W, 5%	R58, R59	2	R bag	In daughter board kit bag
68.1, 1/4 W, 1%	RA	1	R bag	RA-CA in parallel with R24
omit	R54, R55, R56, R57, R60			
Capacitors				
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, C18	3	C bag	
0.022uF, ceramic, 5%	C6, C8, C13, C15	4	C bag	
68pF, ceramic, 5%	C18	1	C bag	
39pF, ceramic, 5%	C19	1	C bag	
120pF, ceramic, 5%	C21, C23	2	C bag	
270pF, ceramic, 5%	C22	1	C bag	
56pF, ceramic, 5%	C24	1	C bag	
0.033uF, ceramic, 10%	C36	1	C bag	
390pF, ceramic, 5%	C37	1	C bag	
0.047uF, ceramic, 5%	C38, C39	2	C bag	
220pF, ceramic, 5%	C40, C41, CA	3	C bag	RA-CA in parallel with R24
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
omit	C44, C45			
capacitor designators not used	C46, C47, C48 C49			
Inductor / transformer cores and wire				
T30-6 (yellow)	L1, L4, T1, T4	4	core bag	
T37-6 (yellow)	L2, L3	2	core bag	
BN-61-2402	T2, T3	2	core bag	marked BN-61
BN-43-2402	RFC1	1	core bag	
#26 magnet wire	L2, L3, RFC1	3 feet	core bag	
#30 magnet wire	L1, L4, T1, T2, T3, T4	12 feet	core bag	
Integrated circuits				
TLV2462CD op-amp, SOIC 8	U1, U2	2	IC bag	
FST3253 or SN74CBT3253D, SOIC 16	U3, U7	2	IC bag	
78L05, 5v voltage regulator, TO92	U4	1	IC bag	
74AC74, SOIC 14	U5, U6	2	IC bag	
LT6231CS8	U8	1	IC bag	
Transistors				
BS170 FET, TO92	Q1, Q3, Q5, Q6, Q7, Q8	6	IC bag	
2N2222A, TO18	Q2	1	diode bag	
2N3904 NPN, TO92	Q4, Q9, Q11, Q12	4	diode bag	
2N3906 PNP, TO92	Q10	1	diode bag	
Diodes				
1N4003	D1, D2, D3	3	diode bag	
Circuit boards				
RXTXv6.2	RXTXv6.2 circuit board	1	board pack	
15m/17m Daughter board kit				
	mounted to RXTXv6.2 board	1	kit 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 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	