

Bill of materials for SoftRock v6 Exciter QSE board

Design by: Jan (G0BBL), Alan (M0PUB) and John (G8BTR)

BOM prepared by: Tony, KB9YIG, 9/19/06

Resistors	used where	quantity
22.1k, 1/4W, 1%	R1, R24, R26	3
10k, 1/4W, 1%	R2, R3, R5, R6, R10, R11, R13, R14, R22, R23, R25	11
49.9, 1/4W, 1%	R4, R7, R12, R15	4
2.21k, 1/4, 1%	R8, R9, R19	3
4.99k, 1/4W, 1%	R16, R20, R21	3
3.32k, 1/4W, 1%	R17	1
1.5k, 1/4W, 1%	R18	1
221, 1/4W, 1%	R27	1
Capacitors	used where	quantity
0.1uF, smt 1206	C1, C2, C3, C11, C21, C23, C24, C25, C26	9 one spare provided in kit
10uF/16 VDC Electrolytic	C4, C6, C8, C10, C12, C15, C17, C19, C22, C27, C28	11
0.001uF, ceramic, 5%	C5, C14	2
100pF, ceramic, 5%	C7, C16	2
0.022uF, ceramic, 5%	C9, C13, C18, C20	4
0.033uF, ceramic, 10%	C29	1
0.01uF, ceramic, 10%	C30	1
Integrated circuits	used where	quantity
74HC74, SOIC 14	U1, U2	2
LTC6241IS8 or TLC2262CD dual op-amp, SOIC 8	U3, U4	2
FST3253, SOIC 16	U5	1
78L05, TO 92	U6	1
Transistors	used where	quantity
2N3906 PNP	Q1	1
2N3904 NPN	Q2, Q4, Q5	3
2N7000 FET	Q3	1
Diodes	used where	quantity
1N4003	D1	1
1N4148	D2, D3 (2 in series), D4 (2 in series)	5
Connectors	used where	quantity
three-pin header sockets. 0.1 inch centers	P1	1
two-pin header sockets. 0.1 inch centers	P2, P3, P4	3
three-pin header, 0.1 inch centers	P5, P7	2
five-pin header, 0.1 inch centers	P6	1
Circuit boards	used where	quantity
SR v6 qse	QSE circuit board	1
Hardware	used where	quantity
1 inch 4-40 pan head phillips machine screw	board stack mounting hardware	4
1/4 inch 4-40 pan head phillips machine screw		2
4-40 hex nut		4
1/8 inch #4 nylon spacer		6
#4 nylon washer		14
3/8 inch 4-40 aluminum threaded standoff		6