

HC2 handclapper voice board BOM

by syntherjack

Qty	Value	Description	Parts
Resistors			
4	1M	Resistor 1/4 W, 5%	R6, R19, R33, R65
5	1k	Resistor 1/4 W, 5%	R8, R9, R56, R60, R66
1	1k5	Resistor 1/4 W, 5%	R100
1	1k8	Resistor 1/4 W, 5%	R17
2	2k7	Resistor 1/4 W, 5%	R13, R22
5	4k7	Resistor 1/4 W, 5%	R26, R28, R36, R37, R55
1	5k6	Resistor 1/4 W, 5%	R25
1	8k2	Resistor 1/4 W, 5%	R18
8	10k	Resistor 1/4 W, 5%	R11, R20, R42, R43, R46, R53, R57, R58
3	15k	Resistor 1/4 W, 5%	R4, R21, R39
3	22k	Resistor 1/4 W, 5%	R24, R52, R59
2	33k	Resistor 1/4 W, 5%	R44, R48
3	39k	Resistor 1/4 W, 5%	R23, R31, R38
4	47k	Resistor 1/4 W, 5%	R16, R32, R50, R61
1	56k	Resistor 1/4 W, 5%	R14
2	68k	Resistor 1/4 W, 5%	R10, R12
1	82k	Resistor 1/4 W, 5%	R2
1	100R	Resistor 1/4 W, 5%	R49
7	100k	Resistor 1/4 W, 5%	R30, R35, R40, R45, R51, R62, R67
1	150k	Resistor 1/4 W, 5%	R29
3	220k	Resistor 1/4 W, 5%	R27, R47, R54
1	240R	Resistor 1/4 W, 5%	R101
1	330R	Resistor 1/4 W, 5%	R5
1	390k	Resistor 1/4 W, 5%	R3
1	470k	Resistor 1/4 W, 5%	R41
3	---	do not mount on PCB	R1, R7, R15
Potentiometers			
1	100kA	Potentiometer audio taper	panel mount, OUTPUT LEVEL
1	100kB	Potentiometer linear taper	panel mount, CLOCK
2	10kB	Potentiometer linear taper	panel mount, DRY, HALL
1	2MB (dual 1MB)	Potentiometer linear taper	panel mount, BURST
2	10kA	PCB trimmer potentiometer	VR1, VR2

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Capacitors			
2	1n	Film capacitor	C4, C5
3	10n	Film capacitor	C20, C24, C26
1	22n	Film capacitor	C21
1	27n	Film capacitor	C3
1	47n	Film capacitor	C9
1	100n	Film capacitor	C12
1	470n	Film capacitor	C22
1	680p	Film capacitor	C17
5	100n	Ceramic capacitor	C18, C27, C28, C30, C31
1	100p	Ceramic / film capacitor	C11
1	220p	Ceramic / film capacitor	C19
1	330p	Ceramic / film capacitor	C10
6	10n	Ceramic capacitor	C15, C25, C29, C101
2	0.47u	Electrolytic capacitor	C2, C16
4	1u	Electrolytic capacitor	C1, C7, C13, C205
2	4u7	Electrolytic capacitor	C8, C23
1	10u	Electrolytic capacitor	C100
2	100u	Electrolytic capacitor	C6, C14
Semiconductors			
1	1N4004	Generic silicon diode	D1
8	1N4148	Generic silicon diode	D2, D3, D5, D6, D7, D8, D9, D10
1	5.1V	Zener diode, 5.1 V	D4
1	4006N	Shift register IC, DIP14	IC4
1	4070N	EX-OR gate IC, DIP14	IC5
1	BA6110	VC-OPAMP, SIP9 (rare)	IC8
6	BC546	Generic transistor	Q3, Q4, Q6, Q7, Q10, Q11
5	BC556	Generic transistor	Q1, Q2, Q5, Q8, Q9
1	LM317LZ	Voltage regulator, TO92	IC1
1	LM339	Quad comparator IC, DIP14	IC2
3	LM358	OPAMP, DIP8	IC3, IC6, IC7
Misc			
1	L-EU0207/10	Bead inductor	L1
1	MTA04-156	Connector 1x4 (MOTM)	J1
1	PINHD-2X5	Connector 2x5 (EURO)	JP1
3	Jack socket	Without switch	panel mount
1	LED	Trigger LED – color of choice	panel mount
	IC sockets		
	female pin strip	As socket for BA6110 IC	