

Bill Of Materials for JH. Subtle Chorus, BBD Board
(PCB mount components listed only.)

Errors excepted, subject to modifications.

Quantity	Part name	Remarks
	Semiconductors	
7	1N4148	All unmarked diodes on PCB
8	BC550C	NPN
3	BC560C	PNP
3	BF245A	JFET
2	MN3101	BBD Clock Driver
2	MN3007	BBD
2	MC14069UB	or HEF4069UB or similar
2	NE 570N	or NE571N or SA570
1	LM13600	Dual OTA
1	TL061	Opamp
2	TL062	Dual Opamp
1	TL072	Dual Opamp
6	HA1457W	or 2 * TL072 + 2 * TL071
	Capacitors SMT	
16	100nF, 35V or higher, 0805	
	Capacitors, Electrolytic	Polarized – note orientation! Higher voltage than specified is ok, as long as fits into the PCB space!
4	1uF, 63V	No bigger than 5mm diameter
8	4.7uF, 35V	marked "4u7", No bigger than 5mm diameter
8	10uF, 35V	No bigger than 5mm diameter
2	22uF, 25V	No bigger than 5mm diameter
2	47uF, 25V	No bigger than 5mm diameter
2	100u, 25V	No bigger than 5mm diameter
	Capacitors, Polyester	5mm spacing
4	3.3nF	Marked "3n3"
8	47nF	
5	220n	Marked "u22"
1	1uF	5mm or 7.5mm spacing
	Capacitors	5mm spacing, slim body
2	150pF	
6	330p	marked "n33"
2	1nF	
2	1.5nF	marked "1n5"
2	2.7nF	marked "2n7"
6	4.7nF	marked "4n7"

	Capacitors, Ceramic	2.5mm spacing
2	10pF	
10	47pF	
4	100pF	
2	150pF	
2	220pF	
2	330pF	
4	1nF	
	Trimpots, single turn	Rectangular Cermet version preferred. Check PCB layout to see what fits in.
4	10k	
1	100k	marked "104"
	Resistors, 1%	Metall film types.
2	22	22 Ohm
2	47	
1	200	...
6	470	
2	620	
3	1k	1 kOhm
2	3k3	...
3	3k9	
4	4k3	
5	4k7	
2	6k8	
2	10k	10 kOhm
14	12k	
6	13k	...
2	15k	
1	20k	
6	22k	
1	27k	
1	33k	
1	39k	
14	47k	
1	51k	
1	62k	
19	100k	
1	150k	
4	220k	
4	330k	
1	470k	
1	560k	
2	680k	
3	1M	1 MegOhm

	Board Connectors	Of course you can solder the wires directly to the board, and then don't need any connectors! Here's what connectors I used (from Reichelt):
4	2-pin	PSS 254/2G (2pin, 2.54mm spacing)
4	3-pin	PSS 254/3G (3pin, 2.54mm spacing)
2	5-pin	PSS 254/5G (5pin, 2.54mm spacing)