Bill Of Materials for JH. String Filter PCB 1 + PCB 2 (PCB mount components listed only.) Errors excepted, subject to modifications. Parts marked with *) required for on-board PSU only.

Quantity Part name Semiconductors 47 TL072 1 LM394 1 *) LM317 T 1 *) LM337 T 3 BC550C	r SSM2210, or similar matched npn pair r CO220 package; needs heat sink r CO220 package; needs heat sink marked ,n" on component overlay
47 TL072 1 LM394 1 *) LM317 T 1 *) LM337 T	TO220 package; needs heat sink TO220 package; needs heat sink
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1 BC560C	or BC560B. marked "p" on component overlay
6 *) 1N4002	the big ones
4 1N4148	the small ones
1 Z-Diode 5.1V	marked as "Z" on component overlay.
500mW	Experiment with other zener voltages.
1 VTL5C3	Vactrol. Optional: for limiter function only.
1 VILSCS	vaction. Optional. for infinite function only.
Canasitors SMT	
Capacitors SMT 60 100nF, 35V or	
higher, 0805	
Capacitors,	Polarized – note orientation!
Electrolytic	Higher voltage than specified is ok, as long as fits into the
Electrolytic	PCB space!
2 1uF, 35V	I CD space:
8 10uF, 35V	
2 *) 10uF, 25V (Tanta	nl near LM317 and LM337
preferred)	ii licai Elvi317 aliq Elvi337
5 22uF, 25V	
2 100uF, 6.3V	
2 *) 470uF, 35V	105 deg C version if available
Capacitors,	Wima MKS, Siemens MKT, or similar.
Polyester	7.5mm or 5mm spacing, unless noted otherwise.
2 1.5nF	
4 1.8nF	
2 2.2nF	
2 2.7nF	
2 3.3nF	
4 3.9nF	
2 4.7nF	
4 6.8nF	
4 8.2nF	
6 10nF	
4 15nF	
2 22nF	
4 27nF	
2 33nF	

2	39nF	
6	47nF	
4	68nF	
6	100nF	marked "u1"
6	150nF	marked "u15"
4	220nF	marked "u22"
6	330nF	marked "u33"
2	470nF	marked "u47"
2	220nF	must be 5mm spacing; marked "u22"
	Capacitors, Ceramic	
11	33pF	2.5mm
1	100pF	2.5mm (marked "n1")
1	10nF	2.5mm
	SIL Resistor Arrays	
40	10k	You need 8-pin Arrays with 4 independent Resistors. (Don't mix them up with 8-pin arrays that contain 7 resistors with a common connection !!) You can replace each array with 4 separate 1% resistors that are mounted vertivally.
	Trimpots,	Rectangular Cermet version preferred. Check PCB layout to
	single turn	see what fits in.
2	100k	
	Trimpots,	Vertically mounted multiturn pots with set screw on top.
10	multi turn	Check PCB layout to see what fits in.
40	10k	
	70.1.1.10/	N. C. 11 C. L.
	Resistors, 1%	Metall film types.
2	220	220 Ohm
2 *)	240	220 Ollili
8	470	···
2	620	
$\frac{2}{2}$	1k	1 kOhm
2 *)	2k7	2.7 kOhm
1	3k	Z. / KOIIII
1	4k7	
3	5k1	
4	5k6	
3	6k2	
5	6k8	
4	7k5	
4	8k2	
4	9k1	
	/ K1	

1	l. a.	lea e a
52	10k	10 kOhm
4	12k	
3	13k	
8	15k	
1	18k	
1	22k	
1	24k	
3	39k	
2	43k	
1	47k	
9	51k	
1	68k	
2 *)	82k	
10	100k	
1	120k	
1	180k	
10	200k	
12	220k	
9	240k	
8	270k	
1	300k	
	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):
8	2-pin	PSS 254/2G (2pin, 2.54mm spacing)
9	3-pin	PSS 254/3G (3pin, 2.54mm spacing)
1 *)	5-pin	PSS 254/5G (5pin, 2.54mm spacing)
2	MOTM connector	
	(optional)	