BOM monotropa v3.1   Reverselandfill 2020

Resistors

r1, r8, r10, r15	1.8k	4	alt: 2k
r7	2k2	1	alt: 2k
r3, r4, r5, r6, r12, r13, r16	10k	7	
r19, r20, r21	1k	3	

Band combinations* see below for more info and mods

band1	low		
c1	1uf	5mm film	
c6	22nF	5mm film	
r2	130k		
band2	low-mid		
c7	470nf	5mm film	
c9	10nf	5mm film	
r9	110k		
band3	mid		
c8	82nf / 100nF	5mm film	
c10	2.2nf	5mm film	
r11	82k		
band4	mid-high		
c11	33nf	5mm film	
c12	1nf	5mm film	
r14	68k		

Diode

d1, d2	1n4001

Capacitors

c2, c3	10uF	2	electrolythic
c13, c27, c28	1uf	3	electrolythic
c4, c5, c21, c23	100nF	4	in kit: mount vertically
c25	10pF	1	alt: 20pF

IC

u1, u2	14pin socket	2	
u1, u2	TL084	2	alt: tl074, tl064

Power

10 pin connector	shrouded	1
power cable	10pin to 16pin	1

Place the panel on the PCB before soldering the pots and jacks

Pots

band1, band2, band3, band4, gain, sum	b10k	6	vertical 9mm

Jacks

	thonkiconn	6	vertical

Knobs   6

*Alternative frequency bands: (you can use parts that are near these values)

63Hz	1270nF, 22nF, 130k
160Hz	503nF, 10nF, 110k
410Hz	200nF, 4.7nF, 91k
1KHz	80nF, 2.2nF, 82k
2.5KHz	33nF, 1nF, 68k
7.7KHz	12.2nF, 470pF, 62k
16KHz	4.7nF, 220pF, 51k

credits: part of the EQ was inspired by the Musicthingmodular Graphic EQ / Boss GE7
The rest of the design (feedback loop, mixer amp stages, external routing, mods are by:

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