

BOM monotropa v4**Reverselandfill 2024****Resistors**

r1, r2, r8, r15	1.8k	4	
r7 (gain amount, higher value is less gain)	4.7k	1	
r3, r4, r5, r6, r12, r13	10k	6	
r19, r20	1k	2	
r16, r17	470r	2	

Band combinations* see below for more info and mods

band1	low		
c1	1uf	1	5mm film
c6	22nF	1	5mm film
r10	130k	1	

band2	low-mid		
c7	470n	1	5mm film
c9	10n	1	5mm film
r9	110k	1	

band3	mid		
c8	82nf / 100nF	1	5mm film
c10	2.2nf	1	5mm film
r11	82k	1	

band4	mid-high		
c11	33nf	1	5mm film
c12	1nf	1	5mm film
r14	68k	1	

Diode

d1, d2	1n4001	1	
d3 (footprint on backside)	1n914	1	

Capacitors

c2, c3	10uF	2	electrolythic
c27	1uf	1	electrolythic
Unlabeled 2.54mm footprints	100nF	6	2.54mm
c13	2,2nF	1	5mm film

Vactrol

LED	3mm yellow	1	
LDR	3mm	1	
shrink tube		1	

IC

u1	14pin socket	1	
u2, u3	8pin socket	2	
u1	TL084	1	alt: TL074, TL064
u2, u3	TL022	2	alt: TL072

Power

10 pin connector	shrouded	1	
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Blad1

power cable	10pin to 16pin	1
mount screws	m3 6mm	4

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

Pots + nuts

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

thonkiconn	5	vertical
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Knobs

5

*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

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credits: part of the EQ was inspired by the Musicthingmodular Graphic EQ / Boss GE7

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