

**BOM monotropa v4f 2025****Reverselandfill 2025****Resistors**

r1, r8, r10, r15	1.8k	4	feedback amp
r7	5.1k to 10k	1	feedback amount
r4, r5, r6, r12, r13	10k	5	Mixers & opamps
r18	100k	1	Neg CV block
r17, r19, r21	1k	3	output resistors
r3, r16	10k*	2	feedback mix
r20	2.2nF capacitor	1	Filter freq MOD option, see below

**Band combinations\* see below for more info and mods**

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

**Diode**

d1, d2	1n4001	1	
d3	1n914	1	Neg CV block

**Capacitors**

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

**Vactrol**

LED	3mm yellow	1	DIY Vactrol
LDR	3mm	1	DIY vactrol
shrink tube		1	DIY vactrol

**IC**

u1, u4	14pin socket	2	
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## Blad1

u2	8pin socket	1	
u1, u4	TL074	2	alt: TL064, TL084
u2	TL072	1	

### Power

10 pin connector	shrouded	1	
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, FB1, FB2	b10k	6	vertical 9mm
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### Jacks + nuts

thonkiconn	5	vertical
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### Knobs

5

### MOD options:

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

63Hz (band 1)	1270nF, 22nF, 130k
160Hz (band 2)	503nF, 10nF, 110k
410Hz	200nF, 4.7nF, 91k
1KHz (band 3)	80nF, 2.2nF, 82k
2.5KHz (band 4)	33nF, 1nF, 68k
7.7KHz	12.2nF, 470pF, 62k
16KHz	4.7nF, 220pF, 51k

### LPG MOD

r3 (with resistor instead of capacitor) (this needs testing!!)	10k	1	voltage divider
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credits: part of the EQ was inspired by the Boss GE7 and Musicthingmodular Graphic EQ

[www.reverselandfill.org](http://www.reverselandfill.org)

[martijn@reverselandfill.org](mailto:martijn@reverselandfill.org)