BOM monotropa v4d 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			
band1	low		
c1	1uf	1	5mm film
c6	22nF	1	5mm film
r2	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	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	

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

Jacks + nuts	thonkiconn	5	vertical

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)	10k	1	voltage divider
(this needs testing!!)			

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

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