BOM monotropa v4d 2025 (v4h) Reverselandfill 2025

Resistors			
r9, r12, r14, r16	1.8k	4	feedback amp
r2	10k*	1	feedback amount
r1, r5, r6, r7, r10	10k	4	Mixers & opamps
r13	100k	1	Neg CV block
r15, r18, r19	1k	3	output resistors
r8	15k*	1	CV feedback mix
r11	15k*	1	Direct feedback mix
LPG			
c13	2.2nf*	1	5mm film
			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
r21	130k	1	
band2	low-mid		
c7	470n	1	5mm film
c9	10n	1	5mm film
r4	110k	1	
band3	mid		
c8	82nf / 100nF	1	5mm film
c10	2.2nf	1	5mm film
r20	82k	1	
band4	mid-high		
c11	33nf	1	5mm film
c12	1nf	1	5mm film
r17	68k	1	
Diode			
d1, d2	1n4001	1	
d3	1n914	1	Neg CV block
Capacitors			
c2, c3	10uF	2	electrolythic
c18, c27	1uf	2	electrolythic
Unlabeled 2.54mm footprints	100nF	6	2.54mm
DIY vactrol			
LED	3mm yellow	1	DIY vactrol
LDR	3mm	1	DIY vactrol
shrink tube		1	DIY vactrol
IC			

u1, u2	14pin socket	2	
u3	8pin socket	1	
u1, u2	TL074	2	alt: TL064, TL084
u3	TL072	1	alt: TL062, TL082

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
the capacitor value sets the SLEW rate.
You can experiment with values from 1nF to 1uF

Feedback amount MOD
r2 sets the feedback amount. Recommended values from 5.1k to 24k (lower is more feedback)
With low values the feedback settings at fully CW can overblow.

Feedback mixer MOD
r8 and r11 form the feedback mixer.
Change these values to increase or decrease the 2 feedback mixes.
Recommended values from 10k to 20k, un-even mixes could be interesting

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

www.reverselandfill.org
martijn@reverselandfill.org