NOISE BOM V8, 2020

Noise PCB & Panel

Resistors

R1, R10, R11, R12	4	100R	
R2, R3, R4, R9, R13, R16, R17, R18, R20, R21, R22, R24	12	1K	
R5, R6, R7, R8	4	1M	Alt: 1.2M
F1	1	10R	Alt: ferrite bead

Diodes

D1, D2, D3, D4	4	Zener 9.1v	ALT: DNP
D6	1	1N4001	

IC's

IC1	1	16 PIN
IC2	1	14 PIN

Capacitors

C1, C2	2	100NF	2.5mm film
C3	1	470PF	2.5mm ceramic
C4	1	330NF	2.5mm
C5	1	470NF	5mm film
C6, C7, C12	3	10UF	Electrolythic
C8, C9, C10, C13	4	4.7UF	Electrolythic
C11	1	220UF	Electrolythic

Transistors

T1, T2, T3, T4	4	2N3904

Power header

SV1	1	10 pin shrouded

Headers

Z1, Z2	2	1X2 pin	Dupont male
PATCH	1	2X6 pin	Dupont male
FEMALE DUPONT CABLE	4		
JUMPERS	2		

Jacks / Pots

CV1,CV2, CV3, CV4	4	Thonkiconn	
OUT1, OUT2, OUT3, OUT4	4	Thonkiconn	
FREQ1, FREQ2, FREQ3, FREQ4	4	B10K vertical 9mm	Alpha
Knobs	4		

Screws 4 6mm M3

Patchbay
There are 8 outputs and 4 inputs on the patchbay.

The 8 outputs are connected to the CD4040 Divider,
each is a lower division of the main output frequency.
Patch 1 or 2 female Dupont cables from the 8 outputs to input "3" or (inversed) "4"
These signals are mixed together to get new combinations of noise!
Position 3 = output 3
Position 4 (inverted symbol) = output 4

MODS
Z1 and Z2 determine the range of OSC1 and OSC2.
Place a jumper there to lower the frequencies.
Capacitor C11 determines the alternative frequency for OSC1,
C12 determines the alternative frequency for OSC2.

The patchheader sets the output patch of OUT1 and OUT2.
There are 8 possible frequency divisions.
Instead of patching these with female Dupont cables, you could make a expander panel.
Idea's: touchplates, banana patchbay, automatic switching with a CD4066 or CD4053