Matrix Mixer BOM – v2 2020

#	Resistors	Value:	Alternatives:	Details:
21	r1, r2, r3, r4, r7, r10, r11, r12, r13, r14, r17, r20. r21, r22, r23, r24, r27, r30, r40, r41, r42	10k		1,00%
6	r34, r35, r36, r37, r38, r39	3k3		1,00%
7	r5, r6, r15, r16, r25, r26, r32	499r		1,00%
4	r8, r18, r28, r31	100k		1,00%
4	r9, r19, r29, r33	1k		1,00%
2	F1, F2	Ferrite beads	10r	Z=68ohm 100MHz

#	Diodes			
2	1n4001			

#	Capacitors			
10	c1, c2, c3, c4, c5, c7, c8, c9, c10, c11	100nF		2.5mm
2	c6, c12	10uF		> 16v, electrolythic

#	IC			
5	u1, u2, u3, u4, u5	LM6172		
5	ic sockets	8pin socket		optional

#	Other / hardware			
1	24 pin male header	2x12		2.54 raster size
6	jumpers	1x2		
7	Jacks	Thonkiconn		PJ398SM or PJ301M
12	Pots	B10k vertical		9mm Alpha
12	Knobs	GTP6M-13X16-S	or others	TME
1	eurorack powerheader	10pin shrouded		
1	eurorack powercable	10pin to 16pin		
4	M3 mount screws			M3

MODS

You can make a external panel by connecting the 20pin header with a IDC connector.

The features can be 'switchable gain' settings and potmeters for total gain