

Sheet1

Falafular VATclap (Bitchclap) BOM

Main board 0.2

SMD side			Other side		
TL072	SOIC8	x1	Atmega328	DIP28	x1
L4001	MELF	x2	IC socket	DIP28	x1
L4148	miniMELF	x3	20 Mhz Xtal	THT 5.08mm	x1
BC847		x4	MC7805	Dpak	x1
			PTC fuse		x2
100k	0805 size	x4	100mA	THT 5 mm	x2
68k	0805 size	x2			
220r	0805 size	x2	2,2uF electro	THT 100mil	x1
33k	0805 size	x5	1uF electro	THT 100mil	x1
2M2	0805 size	x1	0,47uF electro	THT 100mil	x1
10k	0805 size	x1	10uF electro	THT 100mil	x2
1k	0805 size	x1			
			10 pin "euro"		
22p	0805 size	x2	power header	THT	x1
100n	0805 size	x6			
330n	0805 size	x1			
2n2	0805 size	x1			
470p	0805 size	x1			
1n2 (1n5)	0805 size	x2			
7 pin 90 degree					
pin header		x1			
3 pin 90 degree					
pin header		x1			

Panel Component board 1.0

SMD side			Potty side		
LM358	SOIC8	x1	100k pot		
Schottky diode	MELF	x2	9mm linear		2x
L4148	miniMELF	x2	10k pot		
			9mm linear **		1x
			E-switch		
1k	0805 size	x2	E320.08	pushbutton	1x
10k	0805 size	x1	Thonkiconn		2x
110k/pd	0805 size	x4			
			frontpanel		1x
100n/Bp*	0805 size	x1			

* the v0.1 panelcomponent board specifies a 1x 100n and 1xBp (Bypass capacitor) omit the one marked 100n

** the v0.1 panelcomponent board specifies 20k, which will work also. This pot controls the filter frequency, together with the 2x 1n2 (1n5) on the main board.

On v0.1 panelcomponentboard the decay pot is in backward. To fix it, on the smd side of the board, cut the trace between the wiper and the CCW (middle and right) pads. Solder a blob between the CW and wiper (left and middle) pads to connect them.