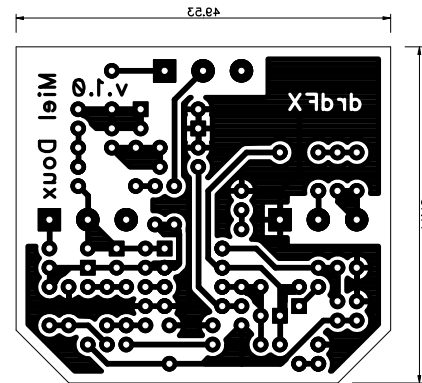
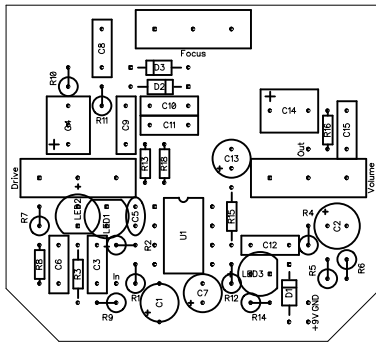


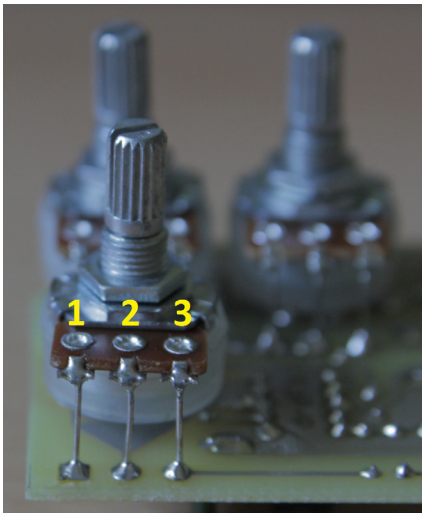


## LAYOUT

Print out the PCB design without any resizing options and make sure you switch off the “fit to page” option. The design is free for personal/home use and you also may build one or two for your friends, but the PCB layout is my artwork, therefore protected by copyright and is not permitted to be used for commercial purposes.



## NOTES



The pots are board mounted to the bottom of the board. The square pads mark the lug 1, for the numbering of the lugs see the picture.

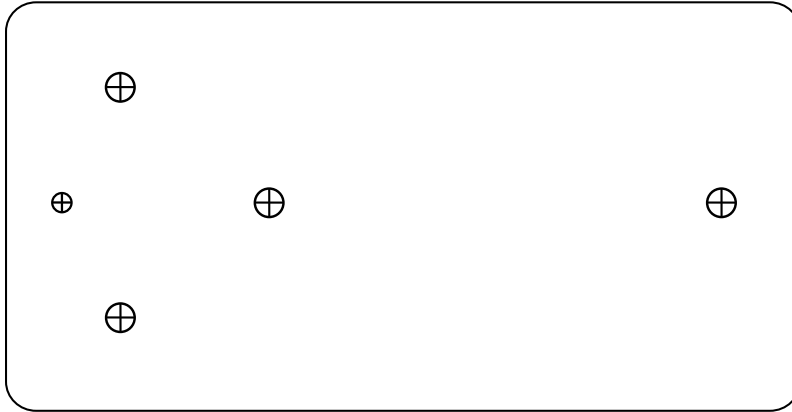
In my opinion the effect sounds just great the way it is, however you still might want to try fiddling around a bit to get more distortion out of it. You can achieve this either by increasing the Drive pot to 1M, or increasing the R14 resistor or both. You can also replace the diodes and LEDs with lower forward voltage diodes, such as Ge or Schottky diodes.

These are common things to try, and honestly since I find the effect such a great design I have not tried these (you can't do any damage with these mods, so „socket'n'try")

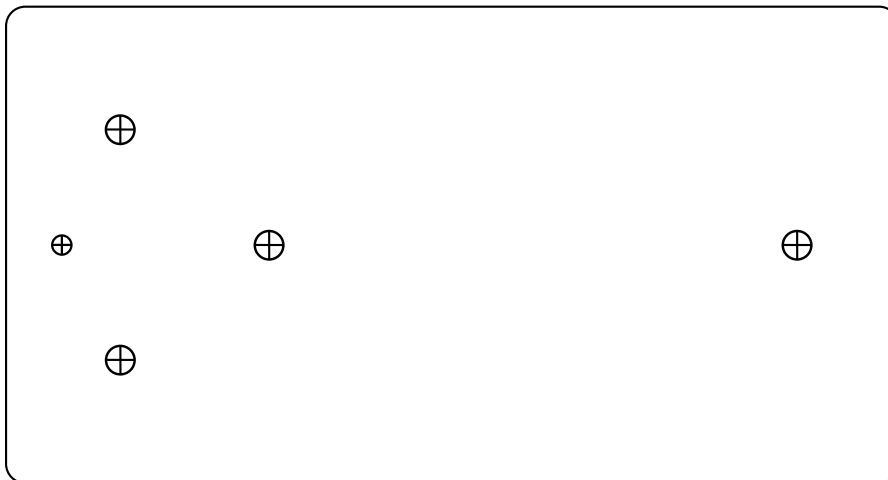
BOM							
Resistors		Capacitors		Semiconductors		Others	
R1	1M	C1	22u	D1	1N5817	Drive	A500k
R2	6.8k	C2	100u	D2	1N4007	Focus	B50k
R3	360k	C3	4.7n	D3	1N4007	Volume	A50k
R4	51R	C4	1u	LED1	3mm red		
R5	47k	C5	100p	LED2	3mm red		
R6	47k	C6	220n	LED3	3mm red		
R7	3k	C7	22u	U1	OP275		
R8	1k	C8	22n				
R9	5.6k	C9	4.7n				
R10	2k	C10	22n				
R11	10k	C11	22n				
R12	1M	C12	1n				
R13	150k	C13	22u				
R14	5.6k	C14	1u				
R15	2.61k	C15	4.7n				
R16	47k						
R17	13.7k						

## DRILLING TEMPLATES

Here are three templates for the top of the box for the various box sizes. The design fits in both 1590B and 125B, however if you are less experienced you may find the 125B enclosure easier to work with.



1590B



125B