DIY Anal og VC-LPF

ericarcher.net/devices/DIY-LPF version 1.0

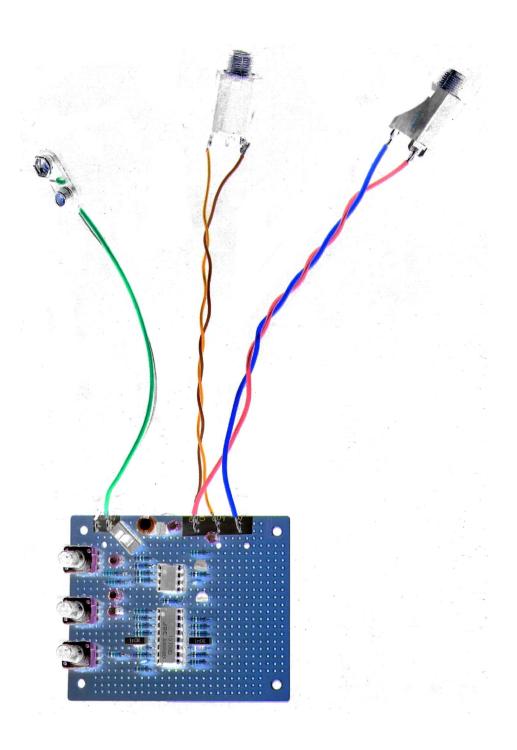
Build it yourself on perfboard. Use pad-per-hole "PC3" type

Basic voltage-controlled filter designed for 9V battery power. 5V max input level before distortion.

12dB / oct state variable LPF with LM13700-type OTA Center frequency range 40Hz – 12kHz

MIX, FREQ, and RESONANCE controls

Can be converted for external CV input (0..+10V) do not use with negative voltage

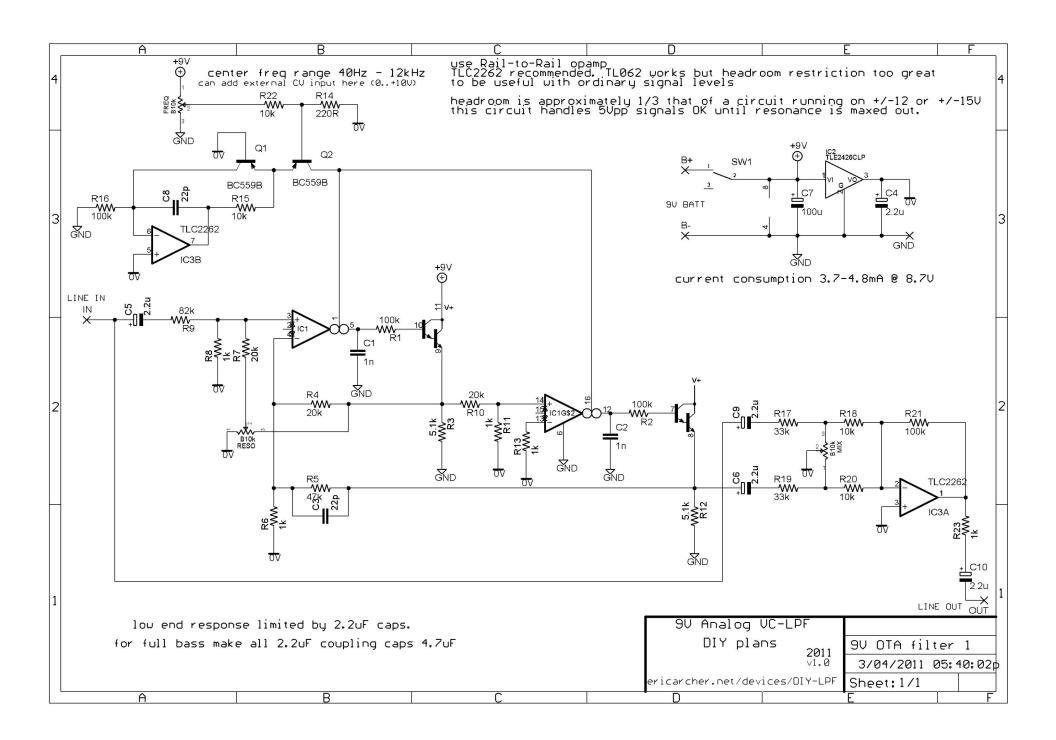


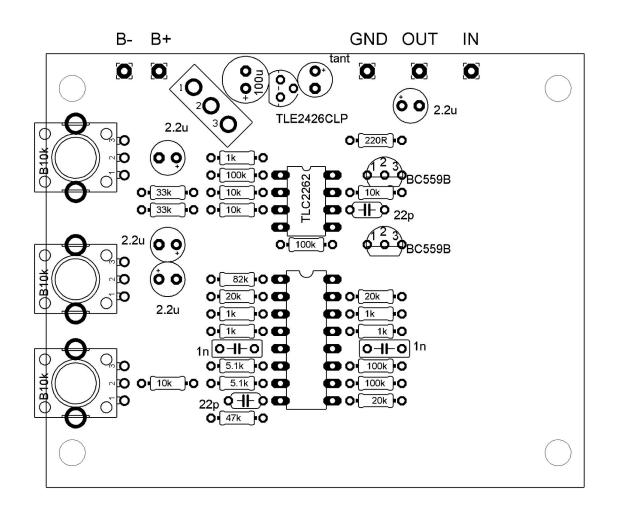
9V Analog	VC-LPF
DIY plans	
v1.0	

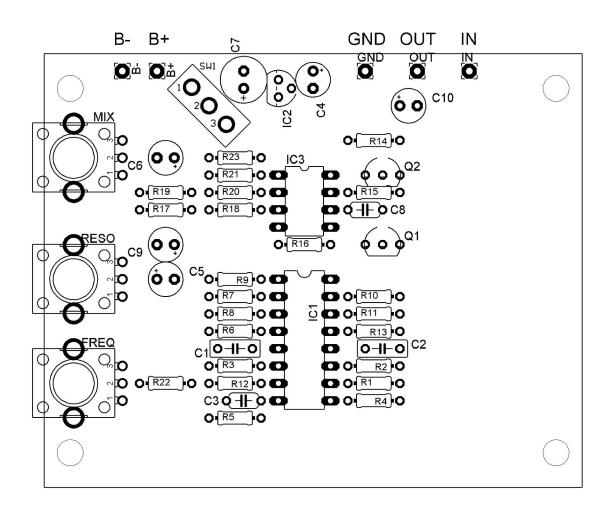
ericarcher.net/devices/diy-lpf

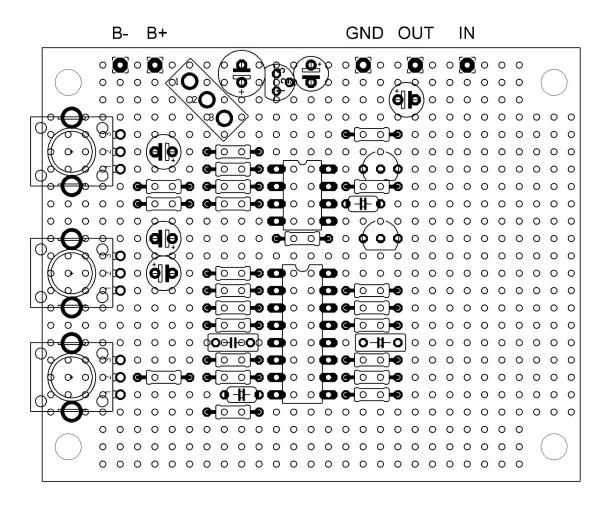
2011

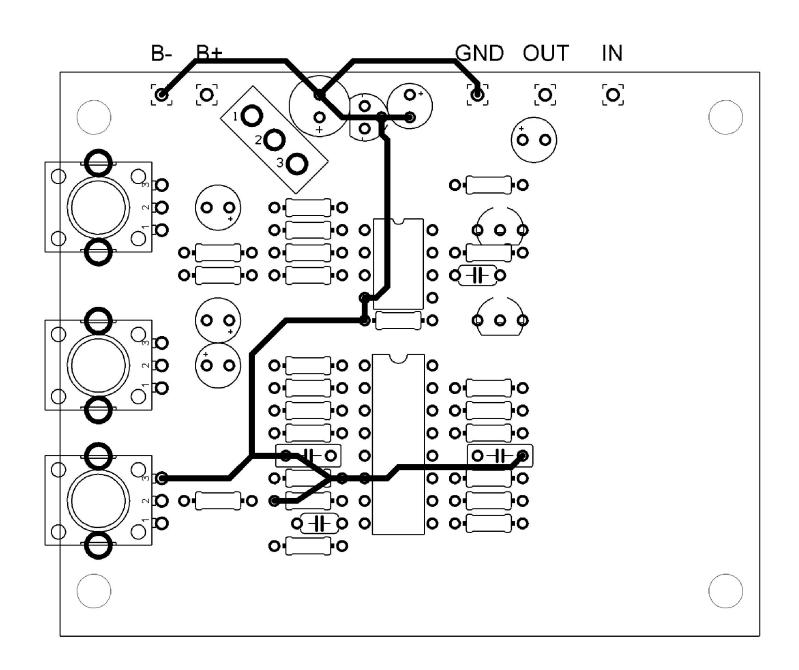
CONNECTORS	<u>qty</u> 2 1	<u>part</u> 1/4" jack [NYS234-3] 9V snap [123-5006-GR]	<u>name</u> 1/4" JACK (IN, OUT)
CAPACITORS	2 2 5 1	1n polyester 5mm LS 22p ceramic 5mm LS 2.2u electrolytic 4x7 mm 100u electrolytic 7x7mm	C1, C2 C3, C8 C4, C5, C6, C9, C10 C7
POTENTIOMETERS	3	B10k 9mm vertical [317-2090F-10k]	FREQ, RESO, MIX
ICs	1 1 1	NJM13700D / LM13700 / LM13600 / NE5517 TLE2426CLP TLC2262CP	IC1 IC2 IC3
TRANSISTORS	2	BC559B	Q1, Q2
RESISTORS	4 1 4 2 2 3 1 5	100k 220R 10k 33k 5.1k 20k 47k 1k	R1, R2, R16, R21 R14 R15, R18, R20, R22 R17, R19 R3, R12 R4, R7, R10 R5 R6, R8, R11, R13, R23 R9
SWITCH	1	SPST slide switch (POWER) [10SP003]	SW1

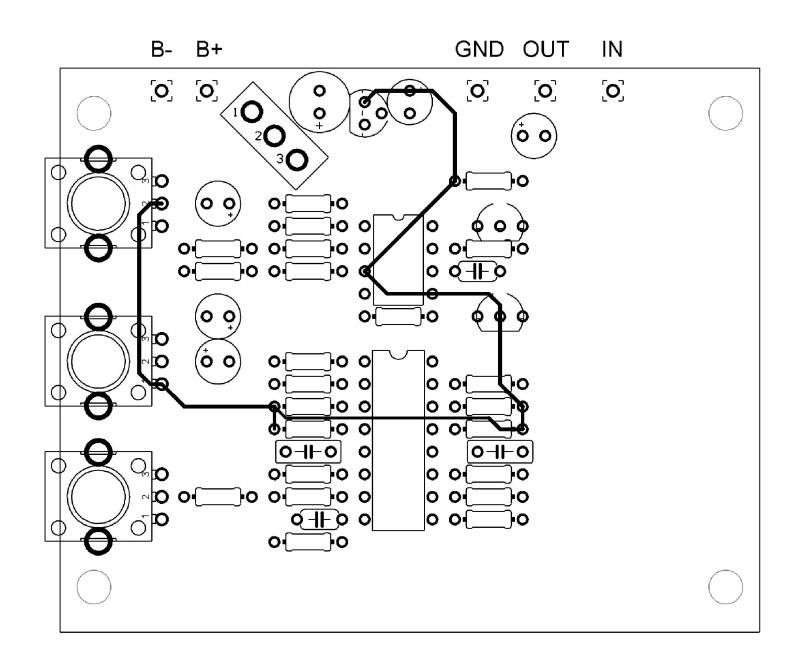


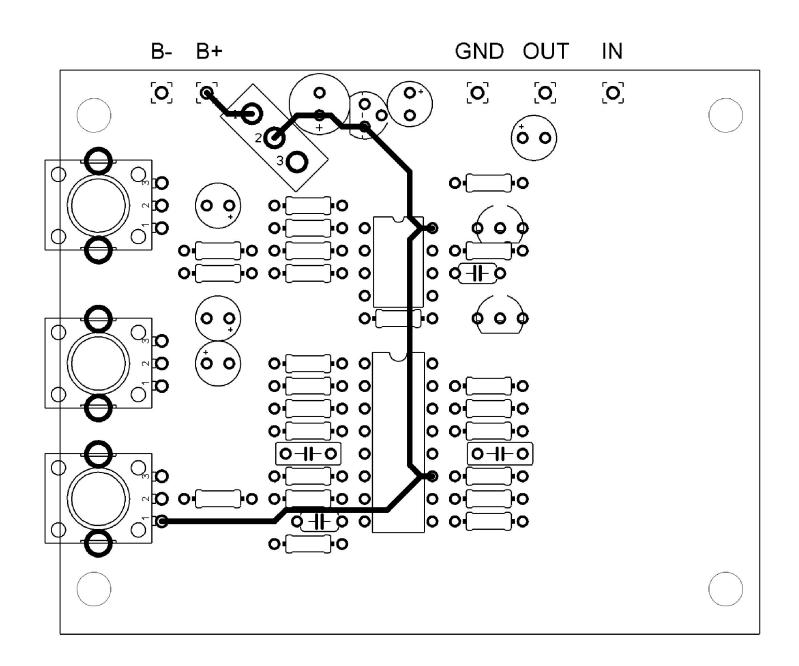


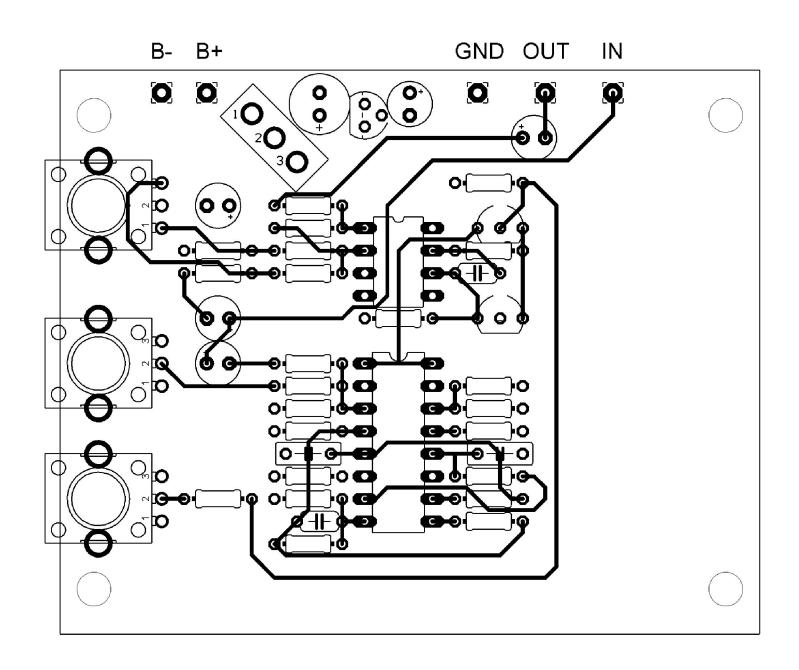


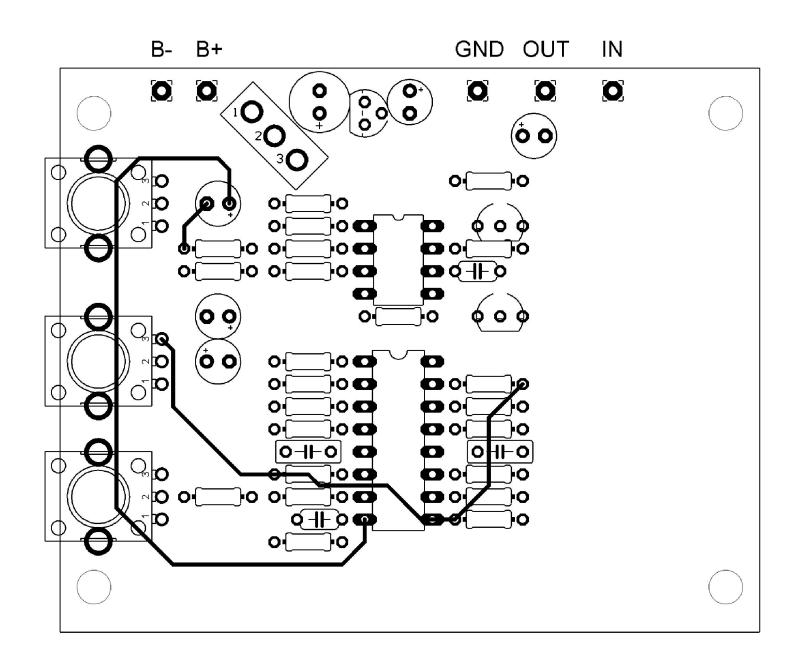


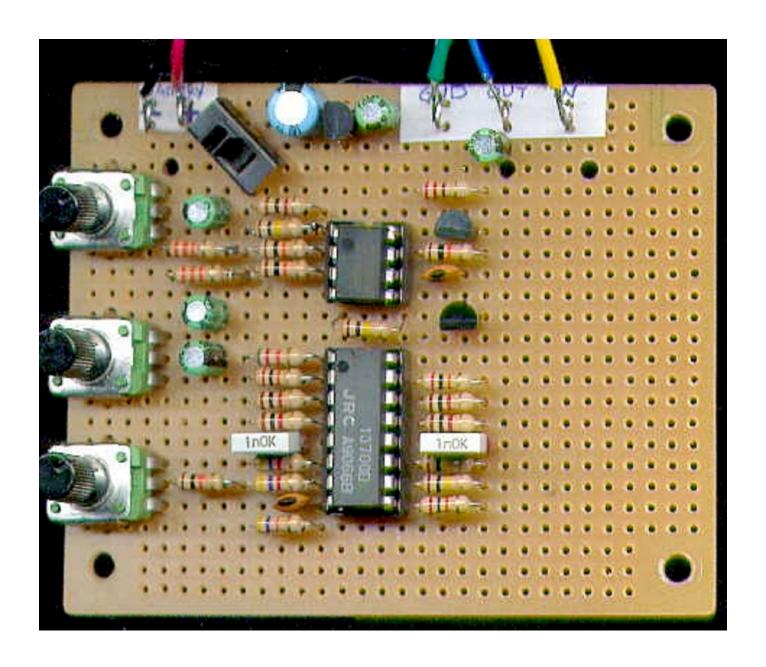


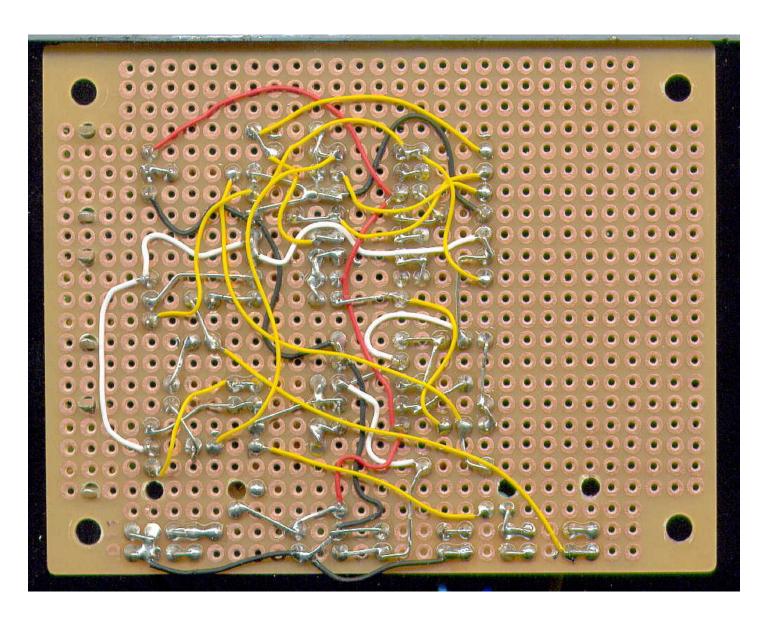












(top edge)