



DRENCH

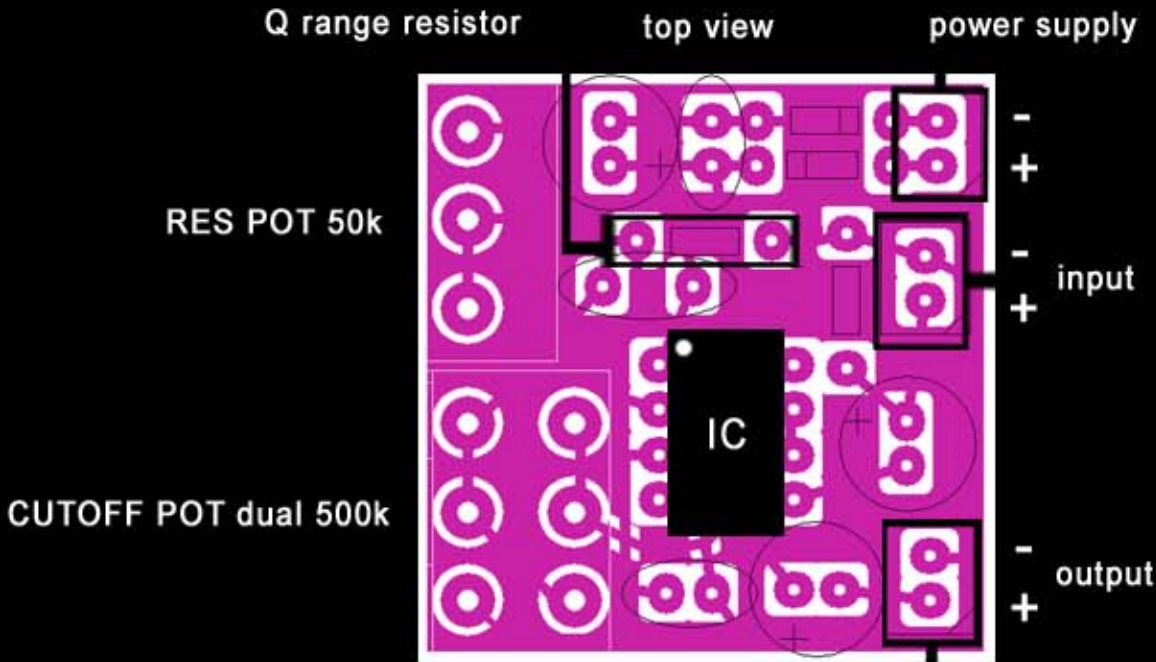
this is a low pass resonant filter with a variable resonance and cutoff. the high resonance will also cause it to self-resonate and produce a near perfect linear sinewave output oscillation for which the cutoff then becomes the pitch control (when running at 9v or higher)

the cutoff and resonance pot can either be panel mounted or you can just wire them up with the hookup wire provided. the pin choices are just suggestions.

you simply solder a wire to the + pins of the input and output and then solder the other ends to the jacks you want to use or to the input and output points of the device you are installing this inside of. make sure to attach the ground connections as well or you will get a terrible hum.

if you don't like that the this will self oscillate so easily then you can simply replace the Q range resistor from 330k to something slightly smaller or even replace it with a 500k pot so you can make it adjustable

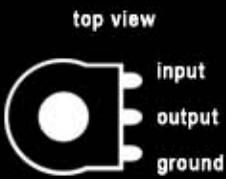
if you plan to use it as a standalone filter then i suggest that you add an input and output pot to give you more control. just follow the diagram down in the left corner.



power supply range from 3 volts DC to 15 volts DC

length and width dimensions—1-1/4" x 1-1/4" or 32mm x 32mm

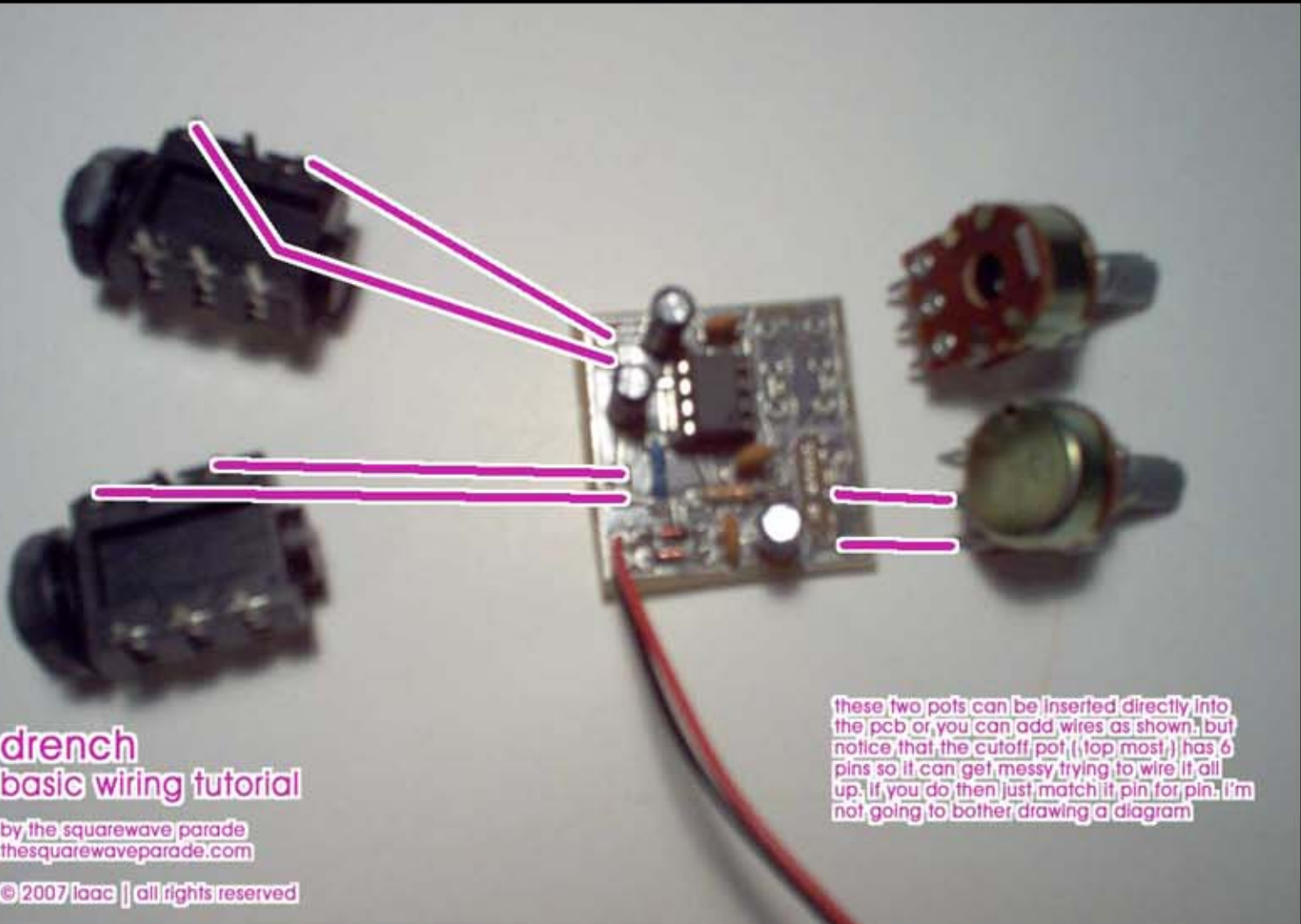
height dimensions - without pots 7/16" or 15mm / with pots 15/16" or 24mm



pot wiring for passive volume control - any value will work but 100k works best for me in most cases - experiment

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<http://thesquarewaveparade.com/drench.html>



these two pots can be inserted directly into the pcb or you can add wires as shown. but notice that the cutoff pot (top most) has 6 pins so it can get messy trying to wire it all up. if you do then just match it pin for pin. i'm not going to bother drawing a diagram

drench
basic wiring tutorial

by the squarewave parade
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