

Parts list

C1, C6, C8	10uF 16V	C7 *	100uF 35V	R1, R3, R5	6.8K 0.25W	R8, R9	10K 0.25W
C2	4.7nF 63V	C9	100nF 63V	R2	18K 0.25W		
C3, C4	1nF 63V	Eyelet	qty 4	R4, R7	3.3K 0.25W		
C5	22nF 63V	IC1, IC2	1/2 TLO72	R6	470Ω 0.25W		

Notes

C1 -6 -7*- 8 are all electrolytic
C2-3-4-5-9 are 10% multilayer ceramic X7R

* If DC supply is well regulated, C7 may be omitted

IC1 and 2 are part of the same dual opamp TLO72

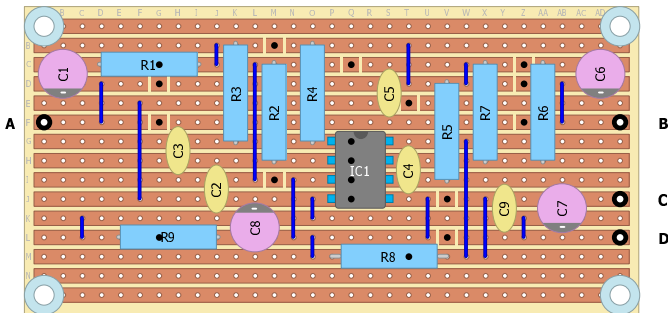
All resistors are 0.25W 5% metal film

Line level Butterworth Low Pass Filter

Cut off 6.9KHz - slope 24dB/octave

(Attenuation at 25KHz -44dB)

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Butterworth 7KHz Low Pass Filter

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Stripboard Layout - viewed from component side. See schematic for component values (See track side image for track cut pattern)

Connections

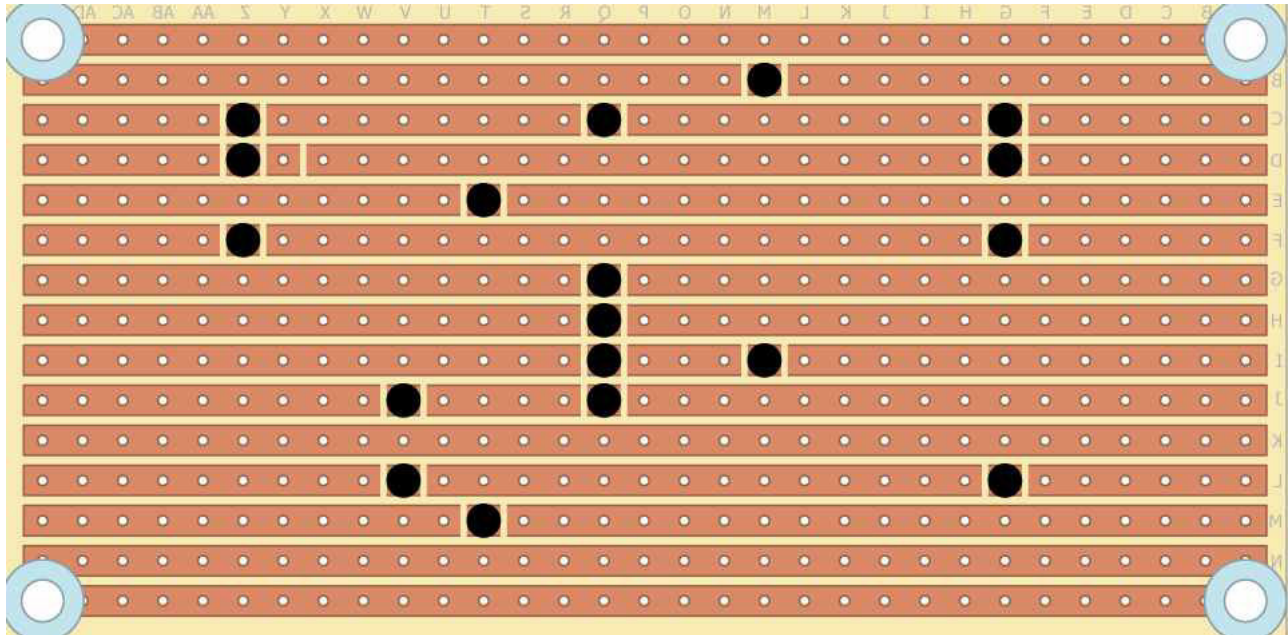
A: audio in (line level +6dB max)

B : audio out. Overall gain 0dB. Nominal 600R out

C : DC + volts (12 to 30V @20mA)

D: DC - volts (gnd) (warning - double check DC polarity before connection!)

(Connect A,B,C,D to mixer pcb with 7/02 instrument wire)



Butterworth 7KHz Low Pass Filter. © Roger Shore 7.13

Stripboard track cut pattern – viewed from TRACK side