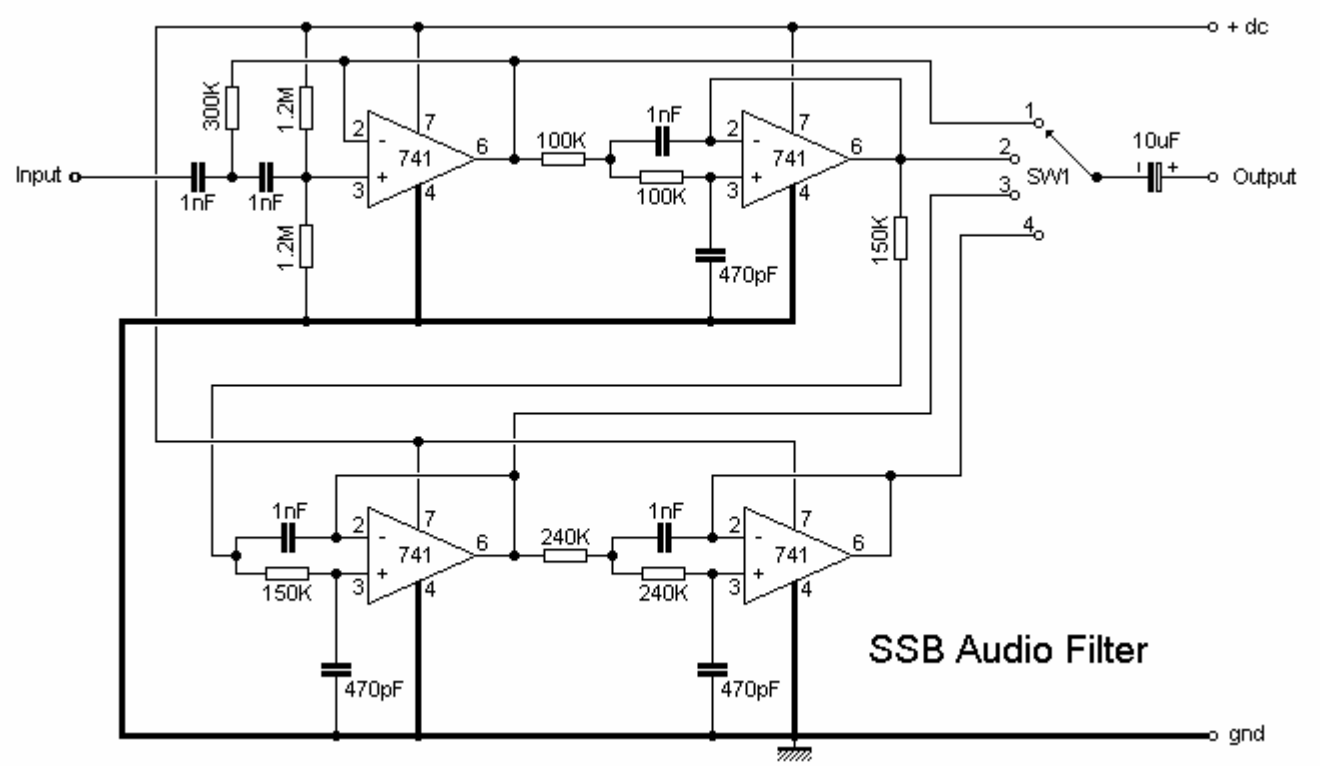
SSB Audio Filter

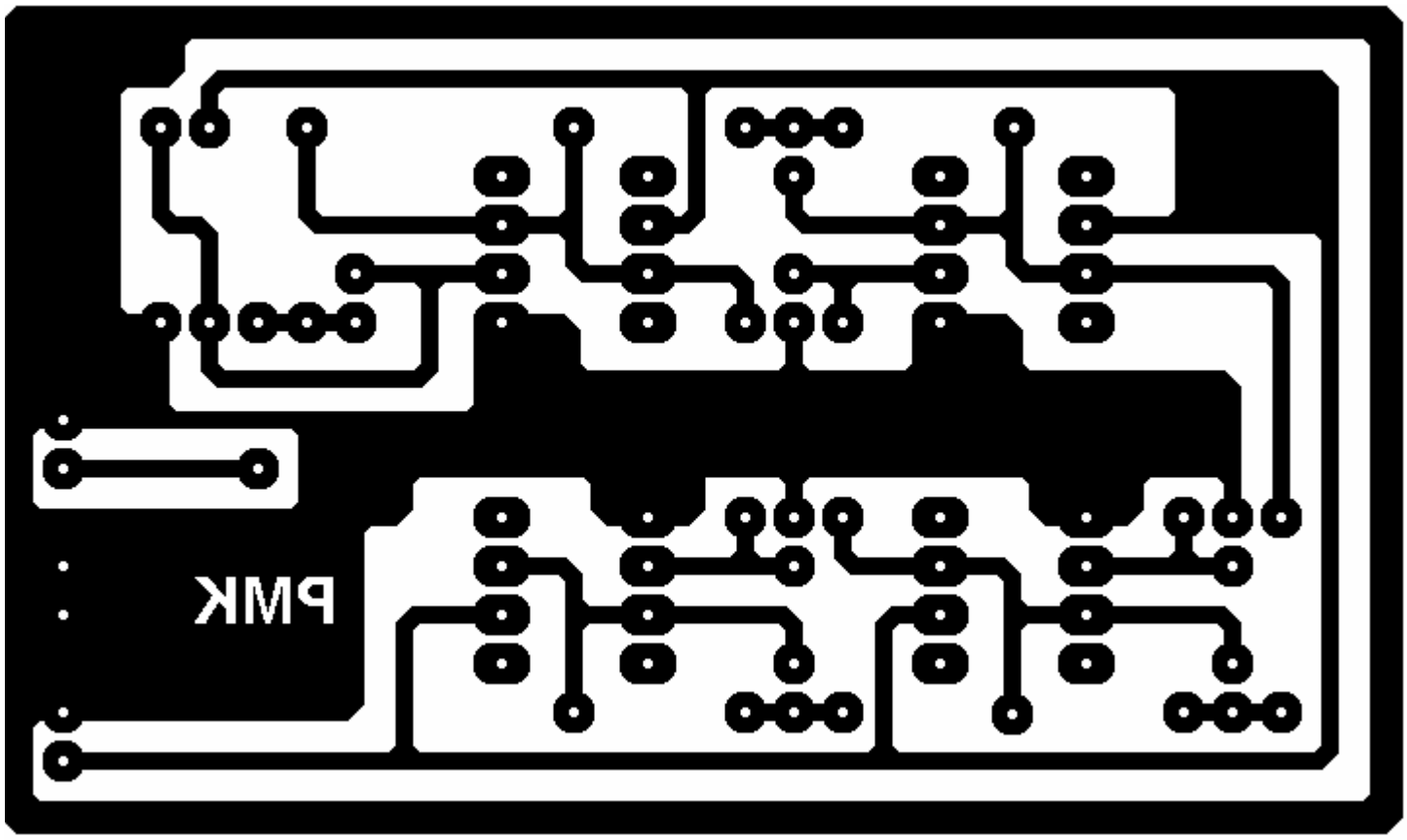


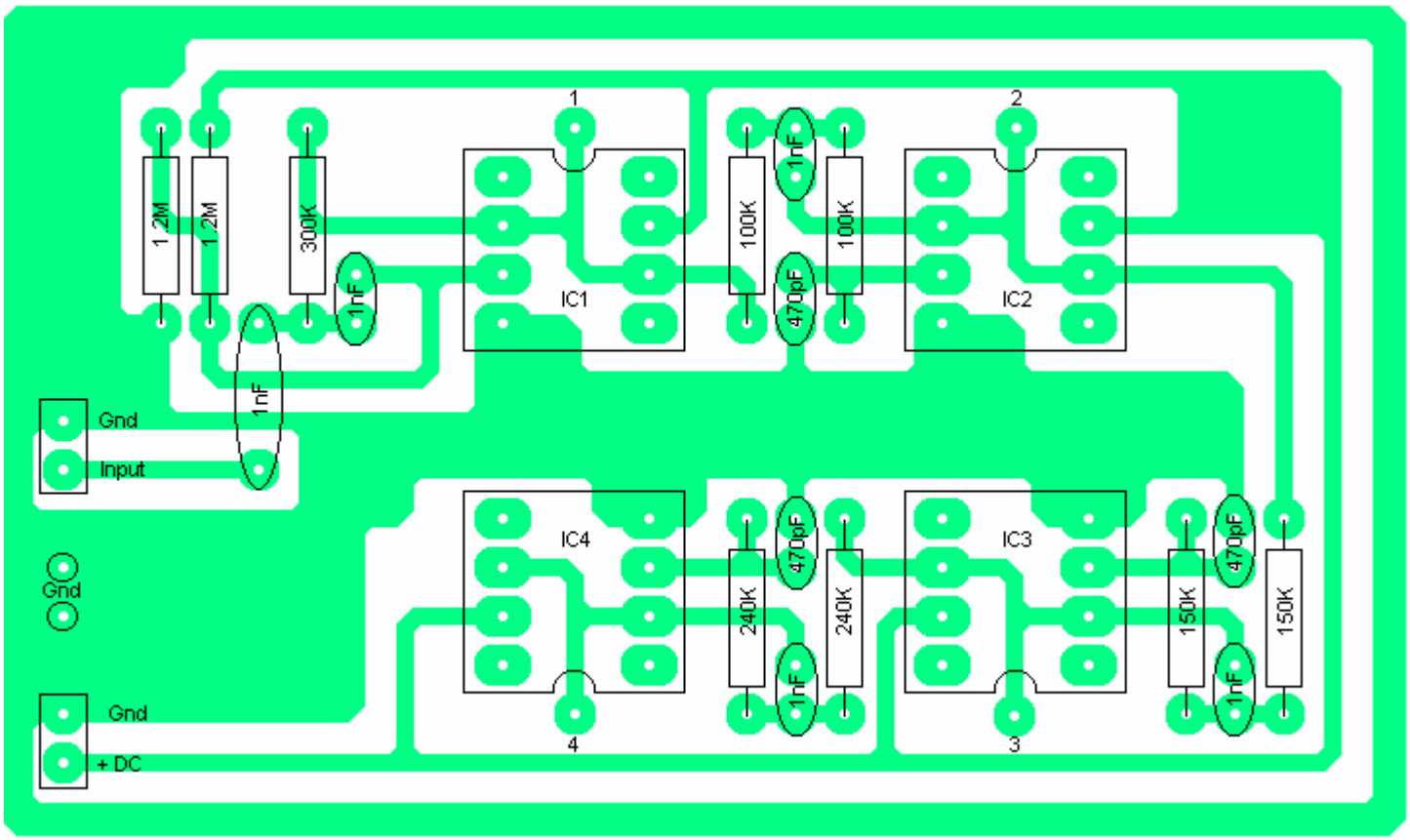
The filter uses four UA741 op-amp IC's to form four Butterworth filter stages. It's possible to use two dual op-amps or perhaps one quad op-amp. I prefer using seperates as it has been known for these dual/quad chips to blow one amp etty much useless.
If seperates are used then it's easier to trace a fault and replace the blown chip. As these are active circuits, no impedance matching is required for optimum performance. Also, there is no insertion loss within the passband. The result is minimum amplitude distortion and unity passband gain for all ranges.

The filter cut-offs are as follows:

- Range 1 = Thru position [via pre-amp]
- Range 2 = 2.5KHz
- Range 3 = 2.0KHz
- Range 4 = 1.5KHz

DC supply is in the range of 9v to 18v. Current consumption is approx. 3-4mA.


PMK


1.2M
1.2M
300K
1nF
1nF
1
IC1
100K
1nF
470pF
100K
2
IC2
Gnd
Input
Gnd
Gnd
+ DC
IC4
240K
470pF
240K
1nF
4
IC3
150K
470pF
150K
1nF
3