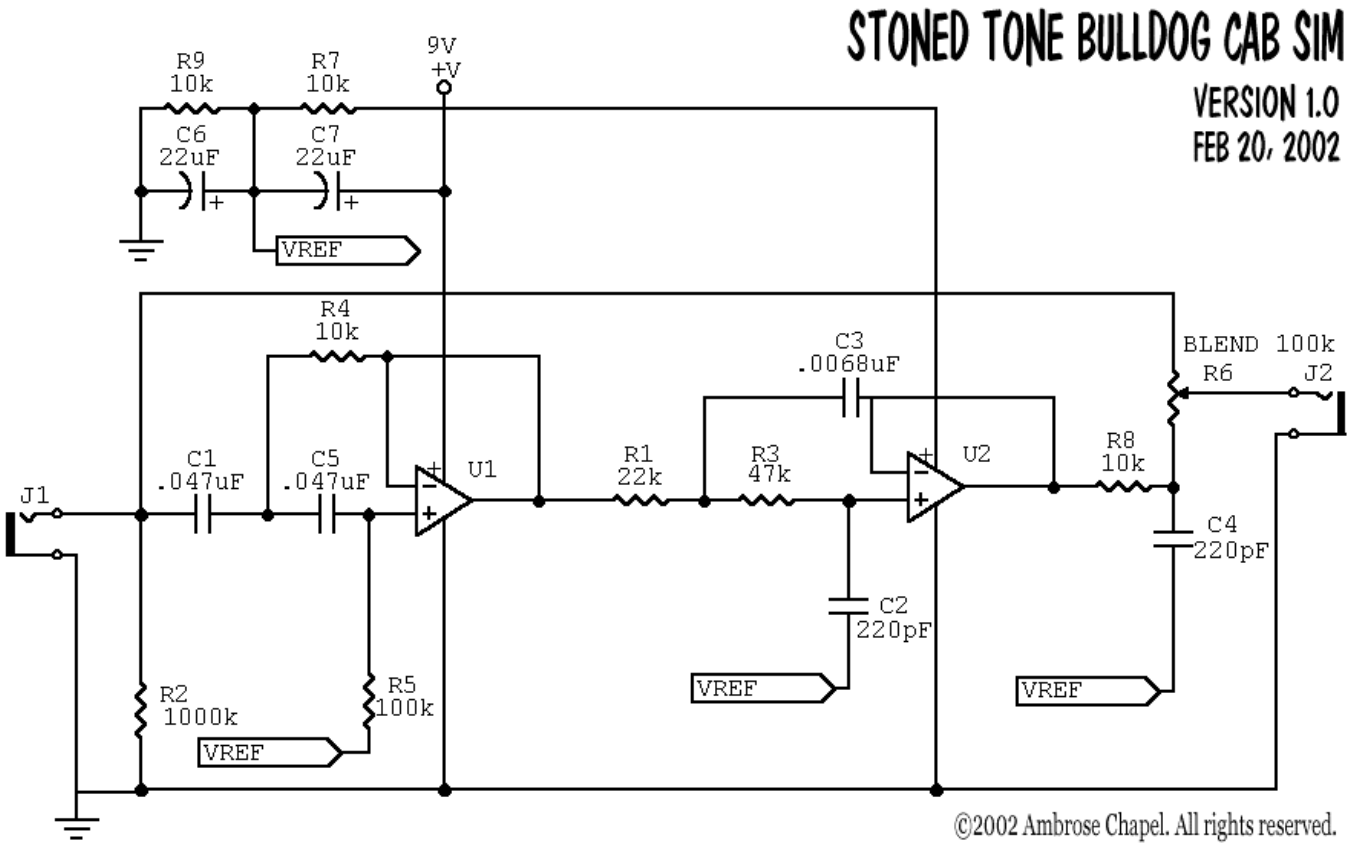
Bulldog Cabinet Sim

I designed this for an upcoming project. My objectives were: keep it simple, low part count, common value components, for line level input and output. Oh and sound good ;).
Here's the schematic:



Bypass switching etc isn't shown or needed depending on your application. Just one control - "Blend", a linear pot. It blends between the straight signal and the cab sim.

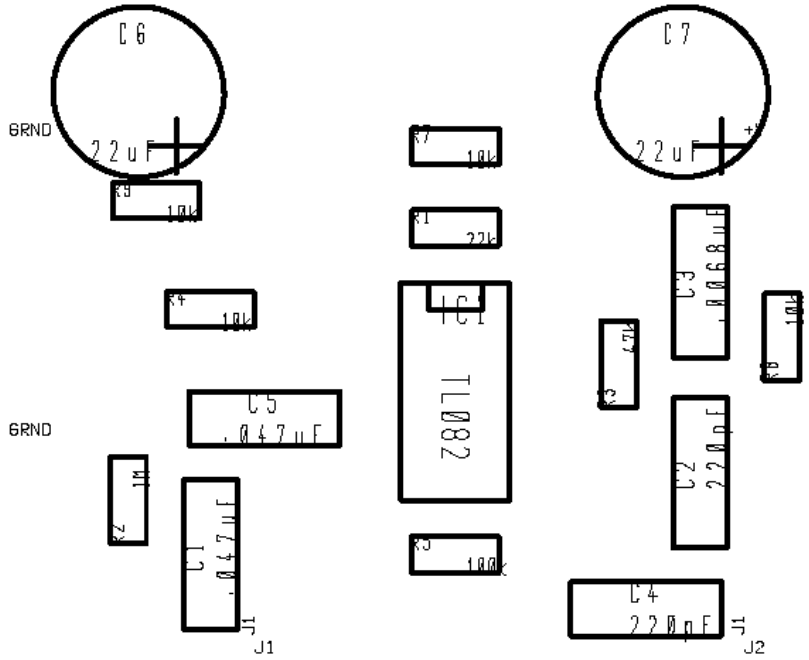
Possible Mods

Volume - This should be easy to figure out ;). You could also not use the blend pot...

Dual Power Supply - Just tie VREF to ground and -Vcc of the op amps to the negative supply.

Resonant Bass Boost - Change R4 to a different value or a pot. 33k will mostly flatten it. You don't want it lower than 6.8k or it'll start cutting bass. If you want to use a pot I'd use 25k in series with a 6.8k resistor. For a switch I'd just switch between 10k and 33k.

Other possible mods - you could totally redo the filters for one... send me an email if you come up with anything interesting =).



Bill of Materials(not including jacks etc):

Item	Count	Label-Value	Attributes	Designation
1	2	.047uF	RAD0.2	C1,C5
2	2	220pF	RAD0.2	C2,C4
3	1	.0068uF	RAD0.2	C3
4	2	22uF	POLAR0.6	C6,C7
6	1	22k	AXIAL0.4	R1
7	1	1000k	AXIAL0.4	R2
8	1	47k	AXIAL0.4	R3
9	4	10k	AXIAL0.4	R4,R7,R8,R9
10	1	100k	AXIAL0.4	R5
11	1	100k Pot	BLEND 100k	R6
12	1	TL082	DIP8	U1