

Re: audio amp with dc output?

Source: <http://sci.tech-archive.net/Archive/sci.electronics.design/2008-05/msg04597.html>

- *From:* Eeyore <rabbitsfriendsandrelations@xxxxxxxxxxx>
 - *Date:* Sat, 31 May 2008 14:36:54 +0100
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Charles Rowe wrote:

I've been away from designing circuits for about a decade, so my knowledge of current components is, well, nonexistent.

I want to make a device that amplifies a signal from a microphone and puts out a dc signal up to 3 volts based on the sound volume. 50mA should suffice. 3 volt supply for the circuit.

3 volts is a lowish supply for good audio noise performance (should that be important) and introduces certain other issues. You may need an internal DC-DC converter to supply some more useful internal voltages.

This is my first post here. I hope it fits within your guidelines.

Any and all help is greatly appreciated!

You need a mic preamp followed by an active rectifier using at least one moderately high output current op-amp.

You will need to define the attack and decay time constants required for your application.

Graham