

## AUDIO AMPLIFIER - INVERTING

This circuit uses an operational amplifier but overcomes the need for a split power supply. It uses a potential divider to generate a simulated zero rail. The rest is a standard inverting amplifier circuit with decoupling capacitors on the inputs and outputs. Any general purpose op-amp will do - even a 741.

$$\text{Gain} = R_f / R_{in} = 10 \quad \text{Max input} = 200\text{mV}$$

