

Audio Amplifier (*)

AMPLIFIER

The amplifier circuit, which consists of a BJT that is biassed using a feedback resistor, receives a low voltage input signal. This configuration yields a gain of 57 for the stated input impedance in this stage.

BUFFER

In the CC Amplifier arrangement, an NPN transistor acts as the buffer. We have used a buffer at this stage of the circuit to output the same voltage and also for impedance matching that is fed into it from the potentiometer and the previous stage.

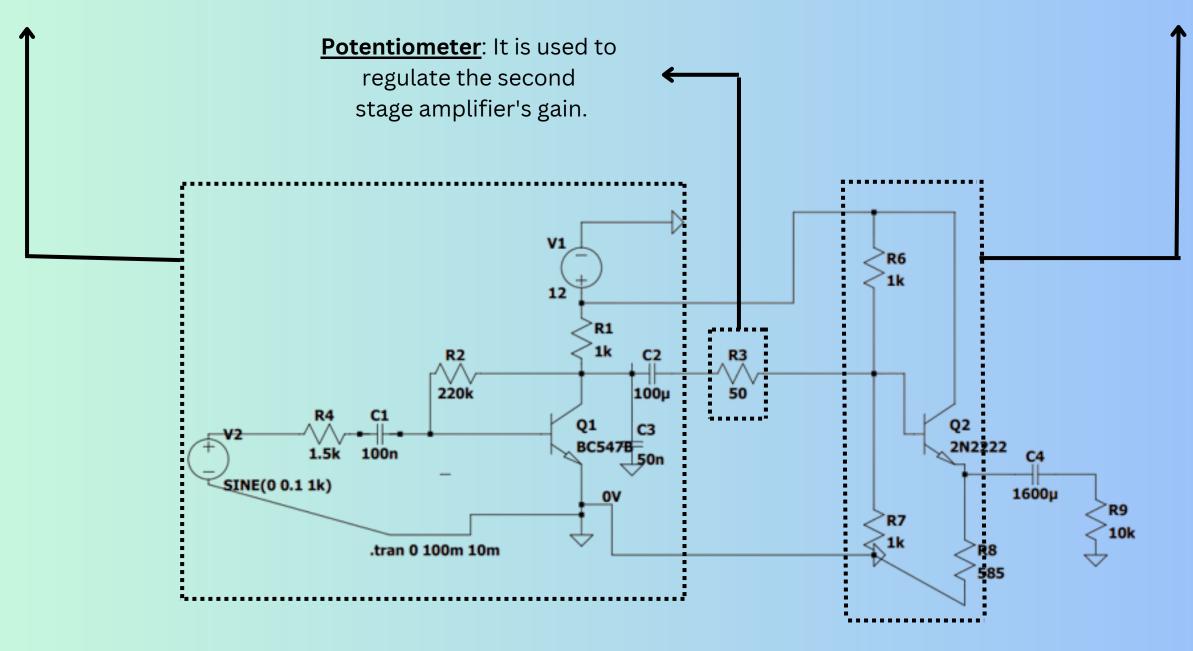
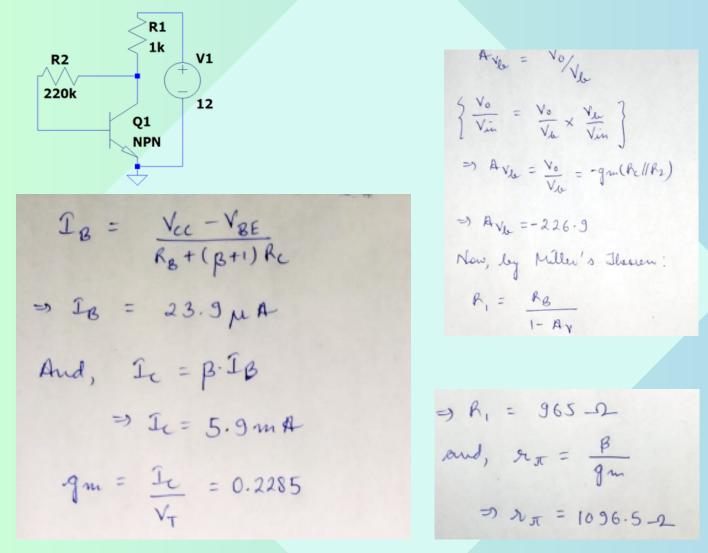


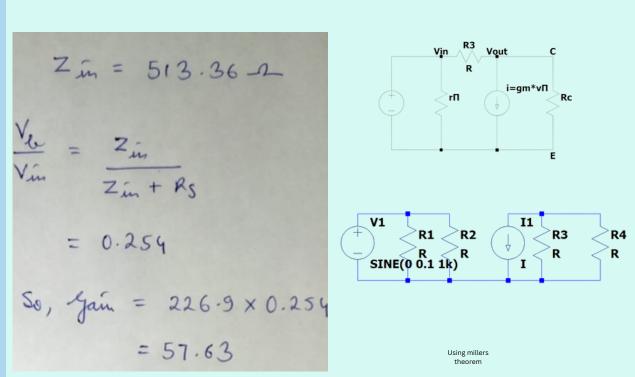
fig.Main circuit

Circuit Analysis

DC ANALYSIS



Small Signal Model



OBSERVATION:

The Circuit is Successfully tested and verified on both Ltspice and oscilloscope.

- **APPLICATIONS:** In various instruments that relate to music, these amplifiers are installed.
 - For the wireless transmission of the signals, audio amplification is required.