

A dark, atmospheric photograph of the Golden Gate Bridge in San Francisco, viewed from a low angle looking across the water. The bridge's towers and suspension cables are silhouetted against a hazy sky. A small sailboat is visible on the water in the lower center.

SACHIN CHANDANI 20161201
ROHAN SHRIVASTAVA 201431227

EW2 AUDIO AMPLIFIER

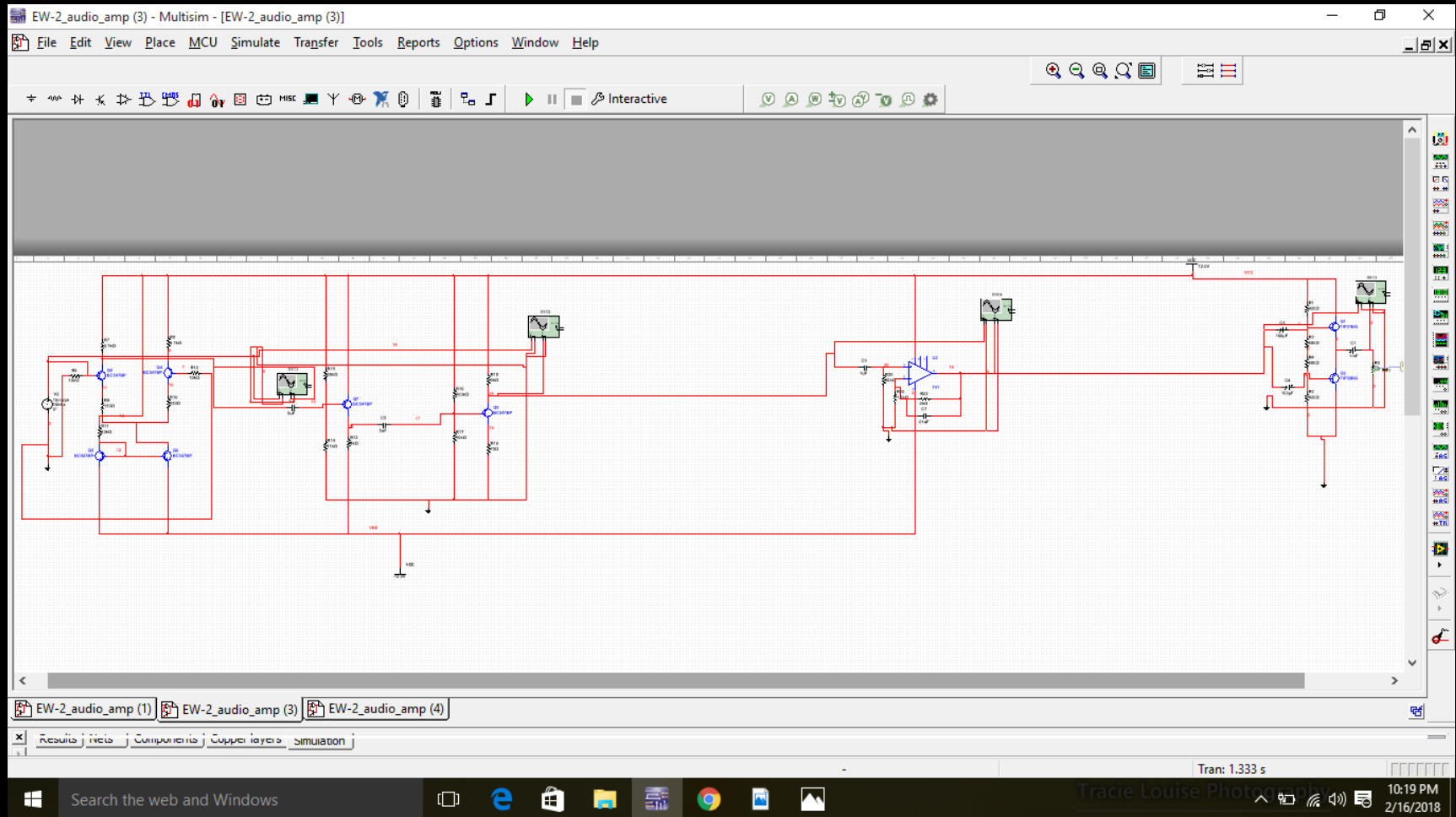
Introduction

An audio power amplifier (or power amp) is an electronic amplifier that reproduces low-power electronic audio signals such as the signal from radio receiver or electric guitar pickup at a level that is strong enough for driving (or powering) loudspeakers or headphones. It is the final electronic stage in a typical audio playback chain before the signal is sent to the loudspeakers and speaker enclosures.

Our circuit consisted of the following main sub sections:-

- Input/Micrphone
 - Gain Stage
- Frequency Filter

Full Audio Amplifier Circuit

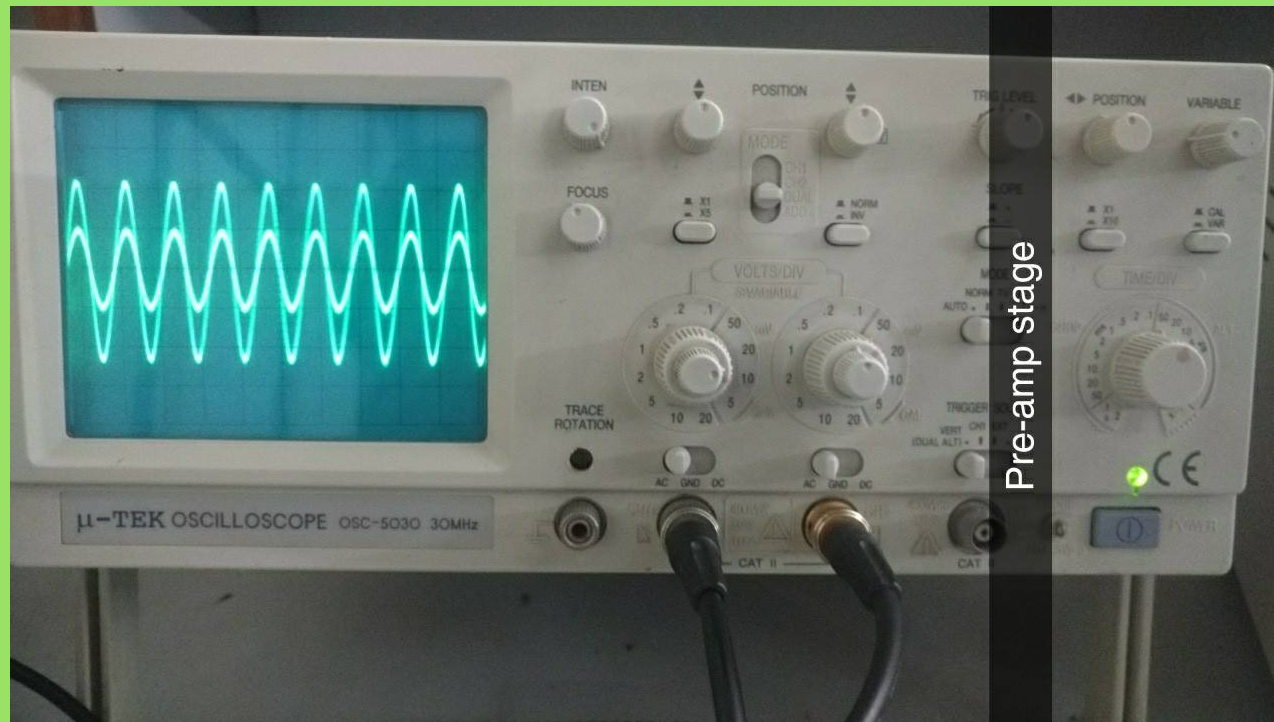


Output

	Input	Output	Gain
Input Stage	-	10mV	-
Pre-Amplifier	10mV	100mV	10
BJT Gain	100mV	2.5V	250
Filter	2.5V	5V	2
Power Amplifier	5V	5V	1

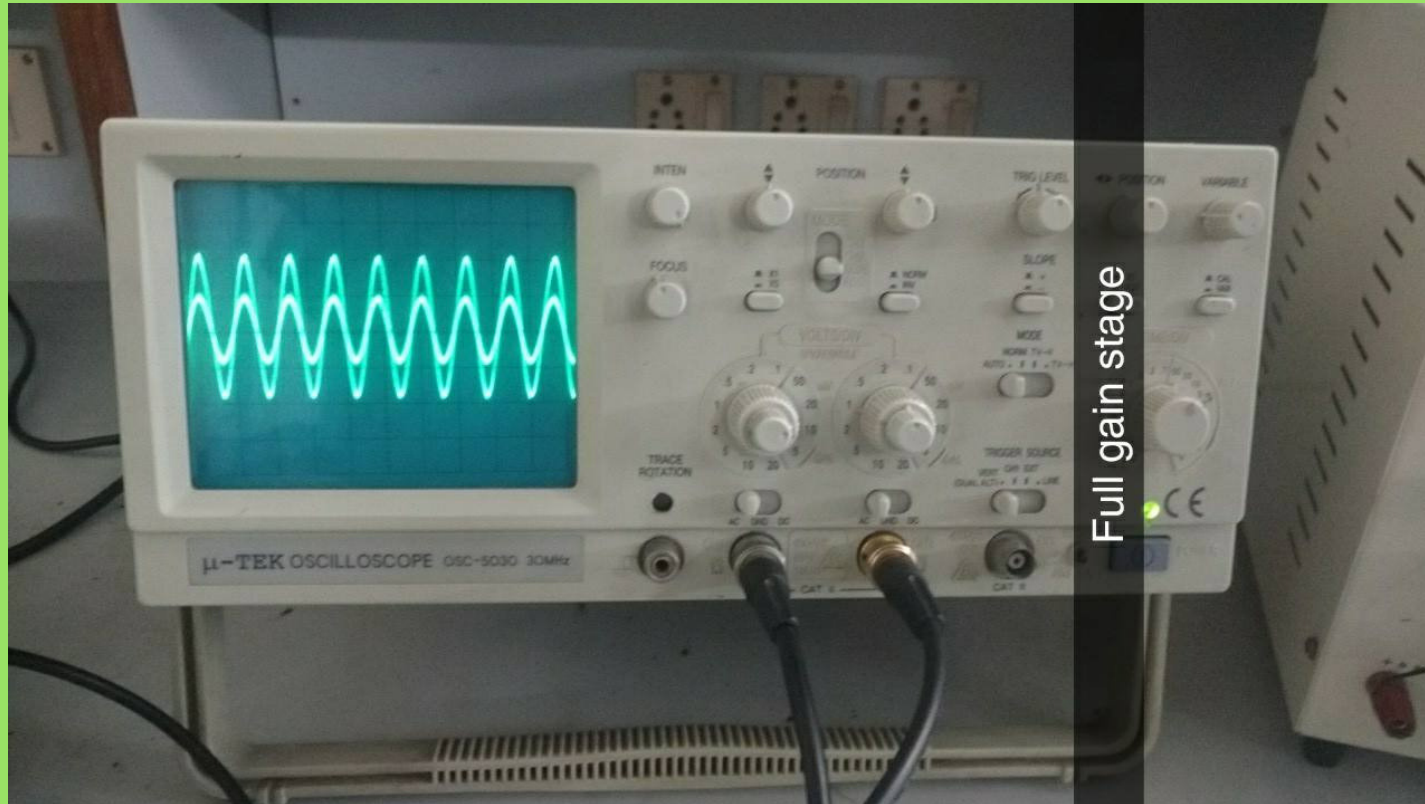
Table 1: Input and Output voltage magnitudes.

Pre Amplification:



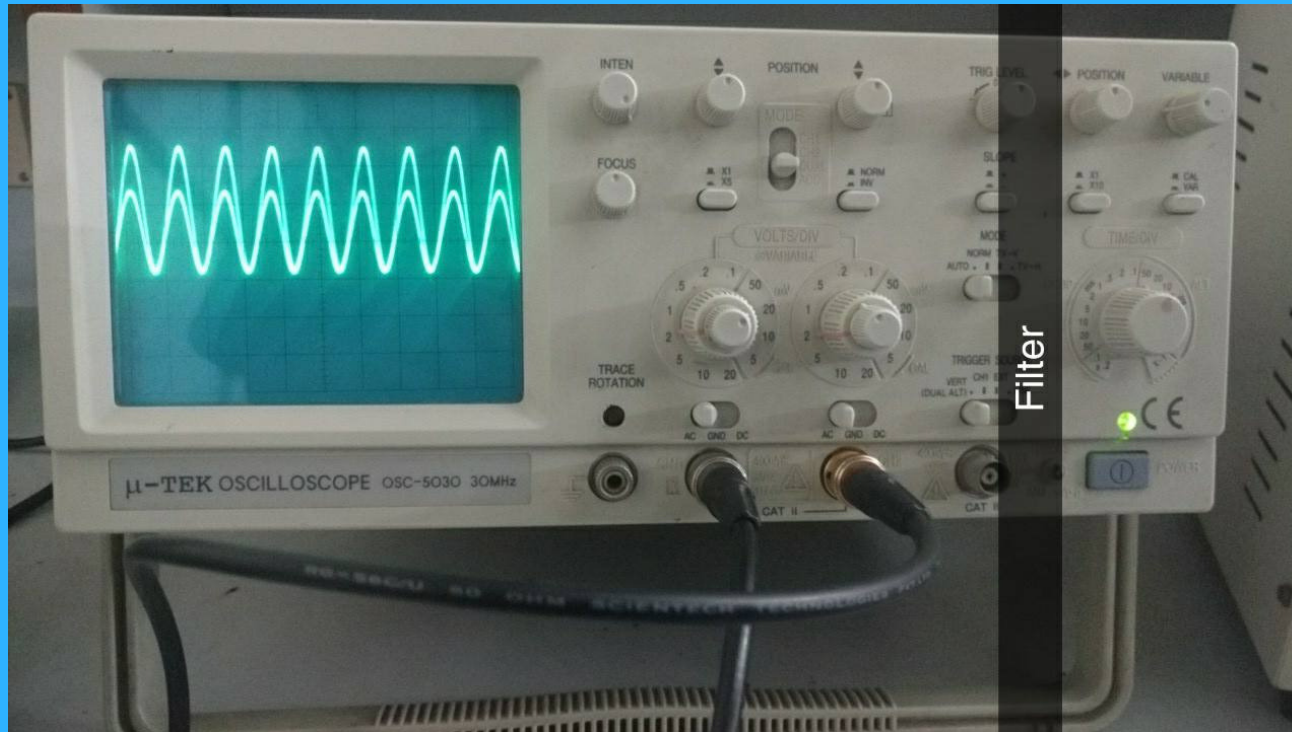
At the end of this stage we get a signal of magnitude 10 times the input

Full Gain Stage:



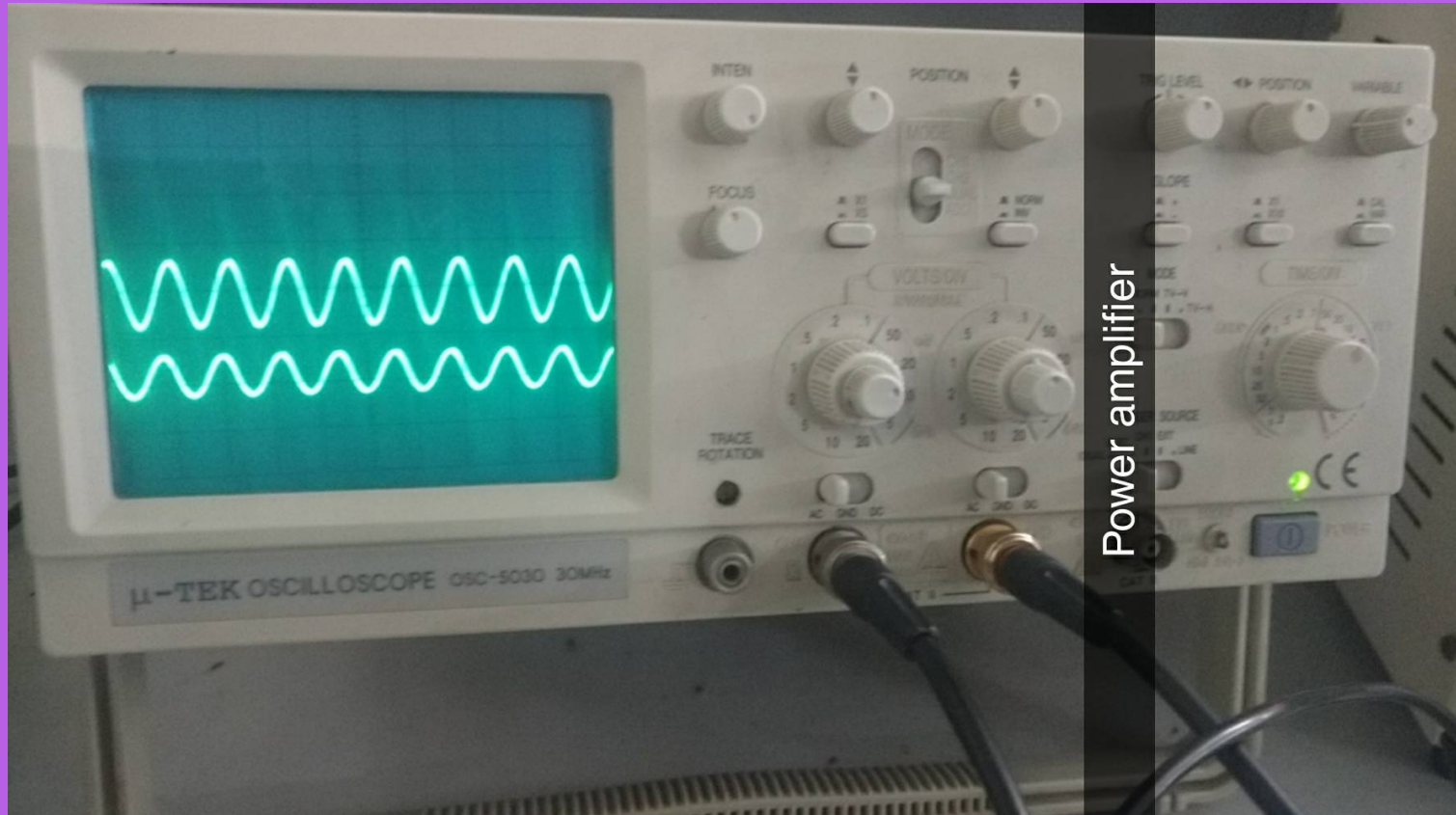
At the end of this stage we get a signal of magnitude 25 times the input.

Filter



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Power Amplification



The output power averages at 1W with the overall voltage gain being 500.



Thank You :)

