

Comparison between two oscillator

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1 Abstract

This report want to show the difference between two oscillating circuits that use only an operational amplifier, in particular the focus will be on the different functioning principle, the waveform produced, its quality and the electrical characteristic of the waveform, so frequency and voltage peak to peak.

2 Introduction

3 Measurement Methods

3.1 Materials

3.1.1 Instruments

- Oscilloscope “Tektronix TDS 1012B”;
- Function Generator “Agilent 3322A”;
- Power Supply.

3.1.2 Equipment

- OPAMP “LT081”;
- Breadboard;
- Wires;
- Resistors;
- Capacitors;

4 Analysis

To analyze the circuit it was used a python enviroment that uses the libraries “*Numpy*, *Pandas* and *Matplotlib*” in a Jupyter Notebook.

5 Conclusion