

Audio Spectrum Analyzer

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ABSTRACT

In this project report, I will provide clear introduction about the audio spectrum analyzer. This report will provide many descriptions about the operation and management of this analyzer. Furthermore, the calculation method for the frequency range of each band bar also include in this project report. I hope this information will be useful for those who want to modify & or construct this circuit.

Besides that, block diagram of my project also consists in this report. There have some summary about circuit operation below the block diagram to make it simple to refer by those who did not interest to study the analysis of the circuit. Otherwise, for those who are interest in this topic, they can refer full analysis of the operation and information for the part in this analyzer in “Circuit Analysis”. A list of components and the descriptions of the components have been provided in this report

Besides that datasheets for semiconductor such as LM380 (op-amp amplifier), LM741 and more are published in my project report to allow us to make analysis on the circuit easily. The pin configuration of semiconductor also important to connect IC with other electronic components on the project board. Some important condition of semiconductor such as max input, voltage, max output voltage provided in the data sheet must be concerned by user so that components are not damaged or spoiled. Other than that, for those who are interest to design this analyzer, you can refer to the circuit diagram that I placed in this report.

Furthermore, some problems that I received when I constructed my project and the solutions to solve the problems are including in my final project report. This project report that I prepaid also consist some reference list of websites, magazines, and some reference books that I borrowed from library are aiding me all the way during the construction of my project. Some comments and recommendations that will give a reader clear summary of my project’s major.