

UNIVERSITI TEKNOLOGI MARA  
KAMPUS BUKIT MERTAJAM  
2003

FINAL REPORT OF DIPLOMA PROJECT

FACULTY OF ELECTRICAL ENGINEERING



SIMPLE MINI WALKMAN

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# **ACKNOWLEDGEMENT**

In the name of Allah, the Beneficent, the Merciful. It is wish the deepest sense of gratitude to Allah who has given me the strength and ability to complete the project and the thesis as it is today.

We would like to take this opportunity to express our deepest gratitude and appreciation to our project supervisors, Mrs. Tuan Syahirah Bt Tuan Yaakob for his simulation package that used in this project, his continuous guidance, invaluable advise in giving the ideas and effort in making the completion of this project possible.

We are also would like to express our special gratitude to our family for their invaluable support along the duration of our studies and their inspiration until this project is completed. Also we like to thanks to all my colleagues for their valuable assistance who helped us directly or indirectly in carrying out the work and reached the goal.

To all the people that we forget to mention, please forgive us; we do appreciate all the thing that you all have done for us and lastly we just want to say, thank you very much.

# ABSTRACT

Our project is called simple mini Walkman. **The main purpose is not to tune a radio, but it just to get the signal sound in cassette player.**

In general, this simple mini Walkman required one IC, two transistor, speaker and etc. In this project we use TDA 2002 IC's. It is low cost equipment and easy to use. The equipment is also simple. This project circuit is not complicated.

The circuit can be divided into two stage, the first stage is pre-amplifier and the second stage is power amplifier. This two stage have each own function. More information about the circuit will be discussed later.

Preamplifier is a low-level signal amplifier, which precedes a large signal amplifier on power amplifier output. That is the reason why we choose the simple mini Walkman.

# CONTENT

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ACKNOWLEDGEMENT	1
ABSTRACT	2

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<b>CHAPTER 1</b>	<b>PAGE</b>
1.0 INTRODUCTION	5
1.1 SCOPE OF WORK	7
1.2 OBJECTIVE	8
1.3 A SYSTEM DESIGN CONDIDERATION	9
<b>CHAPTER 2</b>	
2.0 EXPLANATION OPERATION	
2.1 THEORITICAL BACKGROUND	10
- HOW IT WORKS?	
2.2 SPESIFICATION OF CIRCUIT DETAILS	11
2.2.1 PREAMPLIFIER	12
2.2.2 POWER AMPLIFIER	14
2.3 BLOCK DIAGRAM	
<b>CHAPTER 3</b>	
3.0 CIRCUIT DESIGN AND SIMULATION	
3.1 CIRCUIT DESIGN	
3.1.1 SCHEMATIC DIAGRAM	17
3.1.2 COMPONENT LIST AND COST	18

# **INTRODUCTION**

The title of our project is simple mini Walkman. It is simple and low cost circuit. Again, this project just wants to produce signal sound in cassette player not to tune radio. Here is simple circuit for mini Walkman with 10-watt output power because we just use one channel. This portable cassette player can be easily incorporated in car, Walkman, radio and etc. with 12-volt supply.

The project that we are conducting and built is basic type amplifier. It contains two major circuitry that is preamplifier and power-amplifier stage. Which it will be discussed more in this documentation later. As the project required not less than two integrated circuit (IC) as its major components, we choose to built this amplifier with one designated IC that is to performed power amplification. There was no IC involved in the preamplifier part since we are constructing this project base in basic amplifier design.