

**DEPARTMENT OF ELECTRICAL ENGINEERING
UNIVERSITI TEKNOLOGI MARA
CAWANGAN PULAU PINANG**

FINAL REPORT OF DIPLOMA PROJECT

AMPLIFIER COOLING SYSTEM

FEBRUARY 2004

MUHAMAD RAHMAD B YUSUF

2001225855

MOHD HALMI B ABAS

2001409099

PN IRNI HAMIZA BT HAMZAH

ACKNOWLEDGEMENT

Assalamualaikum...

Firstly thank of Allah bless, we can complete our project 1 report successfully although we had a lot of problem during the performing of the report

We would like to thank to our supervisor, Puan Irni Harmiza, for her kindness, support and concern about our project. Furthermore she always helps us when we are having a problem. More over she always gives us advises and always helps us to find the solution when we have any problem. We would also like to thank her for her time and effort.

We would also like to express our thanks to our friends because of their help and their co-operate to each other when we were doing our project report, thanks a lot to them.

Besides that we would like to thank to our parent because of their supporting and encouragement for us to complete our project report.

Finally, we also wish to thank for those who had given us the brilliant ideas, shares experience and encourage us to complete this project successfully

ABSTRACT

IC is stand for Integrated Circuit. IC is very important device in any electronic circuit especially in amplifier circuit. It use for various purpose. When an IC operated in any electronic circuit, it will reach maximum heat temperature. IC will ruin if there are no cooler system.

A lot of invention had created, but still cannot overcome this problem. So, after we had done some research, we had created one cooler system. We use this cooler system in amplifier circuit. We name it Amplifier Cooling System. The main reason of making this project is to decrease the temperature of any kind of electronic circuit that used Integrated Circuit (IC).

As our project completed, there is no more problem occur when water has been supplied through 'heat sink'. Then water will flow out by small plastic tube. This process will continuously till the circuit is shut off. For protection of our circuit, we have provided water detector circuit that will cut off the voltage supply to water pump motor. Automatically water will stop flow and for enhanced this circuit will be support by a small 12V fan.

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CHAPTER 1

INTRODUCTION

1.1 Background

The main reason of making this project is to decrease the temperature of any kind of electronic circuit that used Integrated Circuit (IC). As usually when an IC operated in any electronic circuit, it will reach maximum heat temperature. Even if heat temperature of IC cooled down by 'heat sink' but there no totally heat sink out.

As our project completed, there is no more problem occur when water has been supplied through 'heat sink'. Then water will flow out by small plastic tube. This process will continuously until the circuit is shut off. For protection of our circuit, we have provided water detector circuit that will cut off the voltage supply to water pump motor. Automatically water will stop flow and for enhanced this circuit, it will be support by a small 12V fan. In our explanation for further details about the processes happen in this circuit we will partition into five chapters.

Our first explanation is about components that we use in this project. This will give the meticulous about list of component, specification, and characteristic and how it will operates in this circuit.

Next, we also explain about the circuit description. This will discuss about how the circuit operates when voltage been supplied. Further more, there are some calculations about the circuit operation. In this chapter, we also include circuit diagram that will show detailed about this circuit.

In third chapter, there is more explanation about hardware processes. There are many step of making this project function as desired. At first, we will