Luleå University of Technology

Dept. of Computer Science, Electrical and Space Engineering

X7006E – Master Thesis Engineering Physics and Electrical engineering

Project *Evaluation of high peak power circuit board simulation versus physical tests (subject to change)*

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In cooperation with
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Abstract

Summary of entire report

Contents

1 Acronyms

1. PCB Printed Circuit Board 3, *Glossary:* PCB

2 Glossary

2. PCB A Printed Circuit Board (PCB) is the common acronym when referring to populated circuit boards. 3

3 Introduction

Introduces the problem

3.1 Goals

What is the goals of this examination job?

3.1.1 Reason

Why I chose this project?

3.1.2 Usecase

What can this be used for and what motivates the support from Grepit AB?

3.2 Hypothesis

Whats my hypothesis, what am I expecting?

4 System

Section that describes the tested system

4.1 Schematic design

Schematic of system

4.2 Component choices

Motivates component choices

4.3 PCB design

Describes the Printed Circuit Board (PCB) design that will be tested and simulated. Motivates design choices.

5 Method

Chapter that will describe testing methods and testing setup

5.1 Physical measurements

Will describe the measurement method for the system hardware

5.1.1 setup

Describes hardware measurement setup

5.1.2 tests

Describes the measurement method and what they test

5.2 Simulations

Will describe the testing method for the simulations

5.2.1 setup

Describes simulation setup

5.2.2 tests

describes the tests and what they mean

6 Results

This sections assembles results gathered from the tests in section 5.

6.1 Measurements

Will summarize measured results

6.2 Simulation

Will summarize simulated results

6.3 Comparison

Will be a short summary of the similarities and differences between simulated results and measured results

7 Discussion

Discusses the results from subsection 6.3. What do the similarities and differences mean? Why are they there?

Can this be used in the industry? Is this an useful product for customers? Compare against Hypothesis.

References

[1] https://www.autodesk.com/products/fusion-360/overview

Appendices

A Large Figures

insert pictures

B Lists

insert lists

LAST WORDS