LASER LIGHT DETECTOR

(LLD1)

This report is presented in fulfillment for the requirement of
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ABSTRACT

LASER is the acronym of Light Amplification by the Stimulate Emission of Radiation system and related field has become an integral part of our society and consequently its uses are widespread. The use of laser in our daily even in research activities is quite apparent in various applications, include medical, military, engineering, production line and even in the research institutions. The output of laser is visible and invisible light, LLD1 is one of the circuits to detect the light of laser. In this project by using Helium-Neon laser as the light source and suited with the new detector to the original circuit, after fabricated and testing the circuit still can be function and detect the light from the laser also another light source. This report describes the development of a laser light detector (LLD1). LLD1 is one of the circuits to detect the light of laser. In this project by using Helium-Neon laser as the light source and suited with the new detector to the original circuit, after fabricated and testing the circuit still function and detect the light from the laser also another light source.

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INTRODUCTION

1.1 Introduction

High intensity source such as plasma torches, electron beam and laser originally develop for special application is finding increasing uses in industry for such process a cutting, soldering and brazing.

Laser is the acronym of Light Amplification by the Stimulated Emission of Radiation system and related field have become an integral part in our daily activities are quite apparent in various application, includes medical military, engineering and even in the research institutions.

As far as laser system is concerned, it is incorporated in multi-range application include holography, optical ranging, radar communication, detection analysis and special effect. Nevertheless, laser cannot simply stand by its own without receiving service or support from the peripheral equipment.

One of the services is laser detector. Laser Light Detector or LLD1 is a one circuit, functionally to detecting the light of laser. From the original circuit LLD1 by Iannini, Robert E in their book ' Build your own working fiberoptic, infrared and laser space – Age',LLD1 used L14G3 as a component to receive or to detect the light. In this project L14G3 was change to Silicon Phototransistor SD5443. Application of this phototransistor is to try whether the circuit can be operate and detect the light source.