

Activity 1.2.5 Clock Signals Using the 555 Timer

Introduction

The 555 Timer oscillator is one of the most versatile circuits used in introductory electronics. It is a favorite among beginners because of its low cost and ease of design. These are precisely the same reasons the 555 Timer is used in the Board Game Counter design.

In this activity you will simulate and build a 555 Timer oscillator. You will observe the effect that varying the value of its resistor and capacitor values has on the oscillator's frequency and duty cycle.

Equipment

- Paper & pencil
- Circuit Design Software (CDS)
- Digital Logic Board (DLB)

Procedure

1. For the 555 Timer oscillator circuit shown below, calculate the frequency and duty cycle of the output signal based on the component values shown.



The 555 Timer Worksheet Answer Key

Lei Shi

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