ECE 312 Lab 2 Specification Sheet Farez Halim 1423780 Tamara Oldham 1440376 LAB H11



Für Elise Melody Clip



Intended Use

The purpose of the **Für Elise Melody Clip** is to produce a two-voice melody, to be used in a greeting card. The song is played through the use of two PS1420P02CT piezo buzzers, after the press of a push-button. The prototype is programmed to play 20 seconds of Beethoven's *Fur Elise* at a moderato tempo, with the two buzzers playing two different octaves.

Operating Conditions

Operating voltage range of the device: 1.8V to 5.5V

Operating temperature: -55°C to +125°C Storage temperature: -65°C to +150°C Maximum DC Current per I/O pin: 40.0mA

Setup Instructions

To operate the device, connect VCC (Pin 20) to a voltage source that is within the operating voltage range (1.8V to 5.5V), and GND (Pin 10) to ground. Press button to play the song interval. Refer to Figure 1 for the device's schematic.

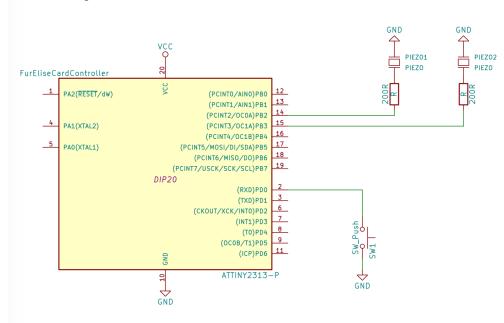


Figure 1: Schematic of Greeting Card Melody Generator Prototype

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Testing

The **Für Elise Melody Clip** will play the following sheet music at the illustrated octave and at an octave above, simultaneously.

Fur Elise

