

Lab 3 Progress Report

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1 Introduction

In this lab, we analyzed a low pass filter, a high pass filter, and an RLC circuit using the Analog Discovery 2.

2 Measuring Capacitance

Frequency (Hz)	Capacitance (nF)
1000	89.2
500	90.1
200	91.3
100	92.1

Table 1: Capacitor 1 Measurements using AD2

Frequency (Hz)	Capacitance (nF)
1000	9.16
500	9.21
200	9.29
100	9.34

Table 2: Capacitor 2 Measurements using AD2

Frequency (Hz)	Capacitance (nF)
1000	1.05
500	1.08
200	1.15
100	1.19

Table 3: Capacitor 3 Measurements using AD2

3 Low Pass Filter

4 High Pass Filter

5 RLC Circuit - Resonance