

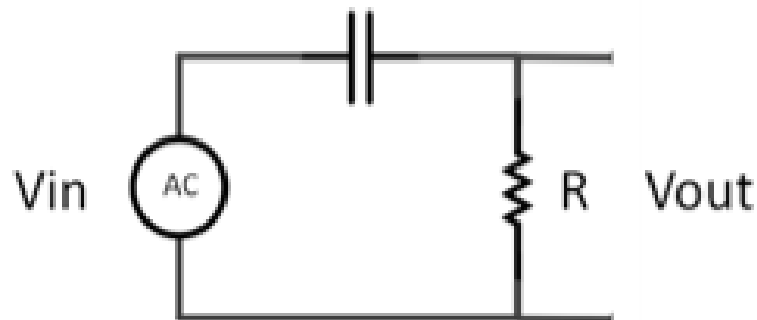


Basic Electricity – Unit 11: Capacitance

Lab 2

1. Using values given by your instructor construct the following circuit.

High Pass filter



2. Set the supply voltage for 10 volts p-p at 20,000 Hz.
3. Connect a voltmeter across the resistor. This will be your output voltage.
4. Measure the voltage across the resistor at 20,000 Hz.
5. Record the voltage measured in the data table.
6. Record the resistor voltage for all values in the given data table.
7. Plot a graph in Excel with the frequency on the X axis and the voltage on the Y axis.

High Pass Filter Data	
Frequency in Hz.	Voltage
20,000	
15,500	
15,000	
14,500	
14,000	
12,000	
11,000	
10,000	
9,000	
8,000	
7,000	
6,000	
5,000	
4,000	
1,000	
900	





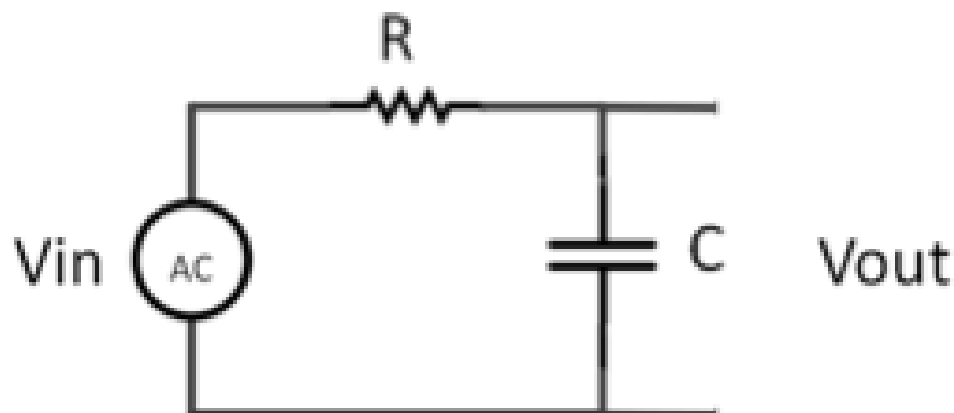
Basic Electricity – Unit 11: Capacitance

Lab 2

800	
700	
600	
500	
400	
300	
200	
100	
50	
25	

Low Pass filter

8. Using values given by your instructor construct the following circuit.



- Set the supply voltage for 10 volts p-p at 20 hz.
- Connect a voltmeter across the resistor. This will be your output voltage.
- Measure the voltage across the resistor at 20 hz.
- Record the voltage measured in the data table.
- Record the resistor voltage for all values in the given data table.
- Plot a graph in Excel with the frequency on the X axis and the voltage on the Y axis.





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Low Pass Filter Data	
Frequency in Hz.	Voltage
20	
30	
40	
50	
60	
70	
80	
90	
100	
200	
300	
400	
500	
600	
700	
800	
900	
1000	
2000	
3000	
4000	
5000	
6000	
7000	
8000	
10,000	





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Lab 2

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