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Introduction To Analog Electronics – Lesson 5: RL/RC Passive Filters

HOMEWORK

The following homework questions are meant to go with the online lesson found here:
http://www.pyroelectro.com/edu/analog/passive_filters/

HOMEWORK QUESTION 1

What is the cut-off frequency f_c of a filter and why is it important to know?

HOMEWORK QUESTION 2

Can a resistor + capacitor (RC) be used to build both a low-pass *AND* a high-pass filter?

HOMEWORK QUESTION 3

Draw an RL high-pass filter circuit.

HOMEWORK QUESTION 4

If I have a RC low pass filter circuit with $R = 10 \Omega$, $C = 10 \mu\text{F}$, what would the cut-off frequency be?

ADDITIONAL INFORMATION

To get feedback on your homework or to ask additional questions related to this lesson, please post your homework answers or your questions in the online forums at:

<http://www.pyroelectro.com/forums/>