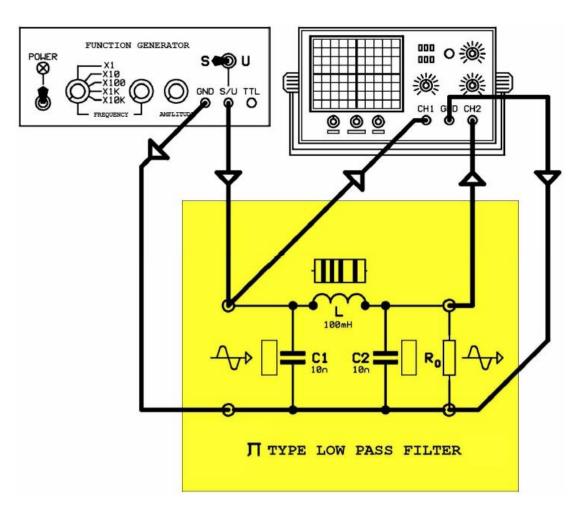
EXPERIMENT #10_1 EXAMINATION OF Π TYPE LOW PASS FILTER

REQUIRED MATERIALS:

- **1.** Function generator
- 2. Oscilloscope (two channels)
- 3. AC Voltmeter
- 4. Y-0016/03AC module
- **5.** Connection cable

EXPERIMENT:

Adjust the output of function generator to sine peak to peak **Vpp=10 V** and the frequency to **1 KHz**. Plug the **Y-0016/03AC** module. Make the circuit connections as in Figure.



EXPERIMENT OBSERVATIONS

1.	In the experiment L=100mH , C=10nf . Calculate the " Ro " resistance.
2.	Calculate the cut-off frequency of circuit.
3.	What does cut-off frequency denote?

4. Apply energy to the circuit. Increase the input signal frequency **1 KHz** each step until **10 KHz**. Note the output signal amplitude to a scale in each step. Especially, measure the output signal amplitude at cut-off frequency.

FREQUENCY (KHz)	ν ₀ (γ _{PP})
1,0	
2,0	
3,0	
3,5	
4,0	
4,5	

FREQUENCY (KHz)	V ₀
6,0	
7,0	
8,0	
9,0	
10,0	

e is a difference, explain why?	
can be said about the change in scale?	<u> </u>