

EXPERIMENT #9_1

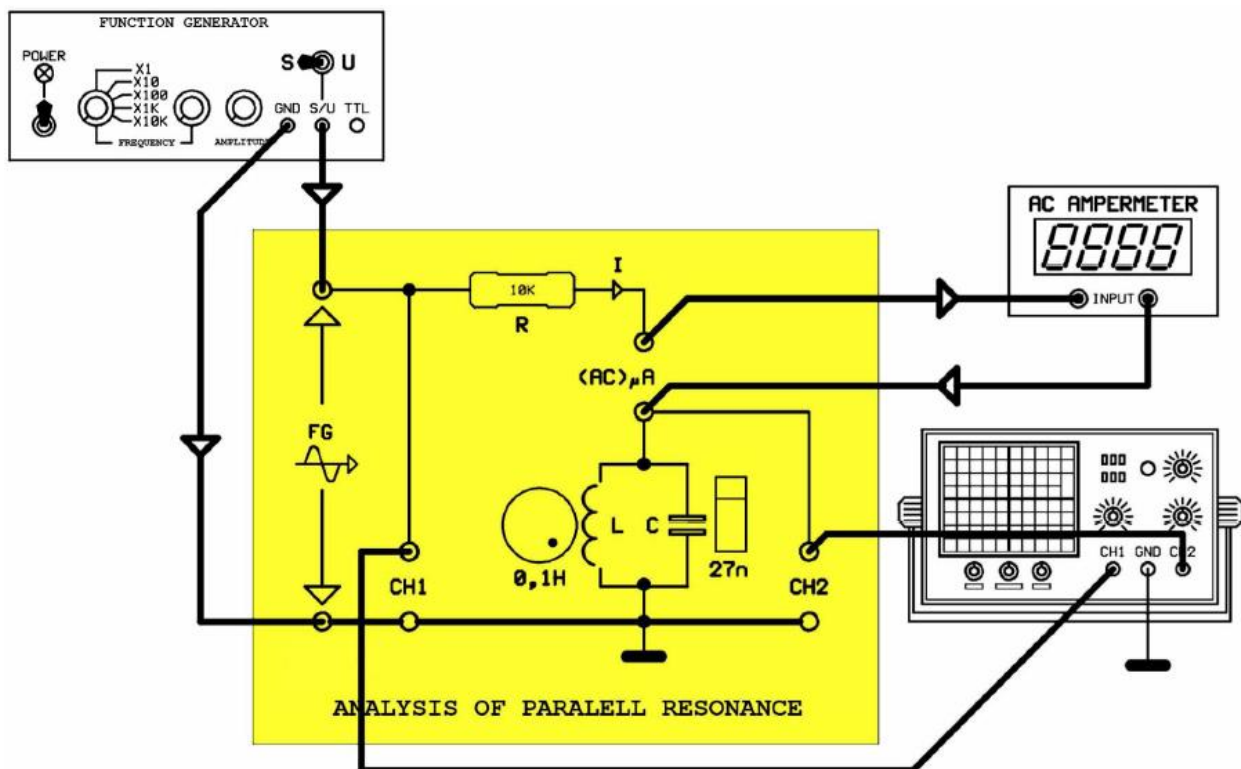
EXAMINATION OF PARALLEL RESONANCE

REQUIRED MATERIALS:

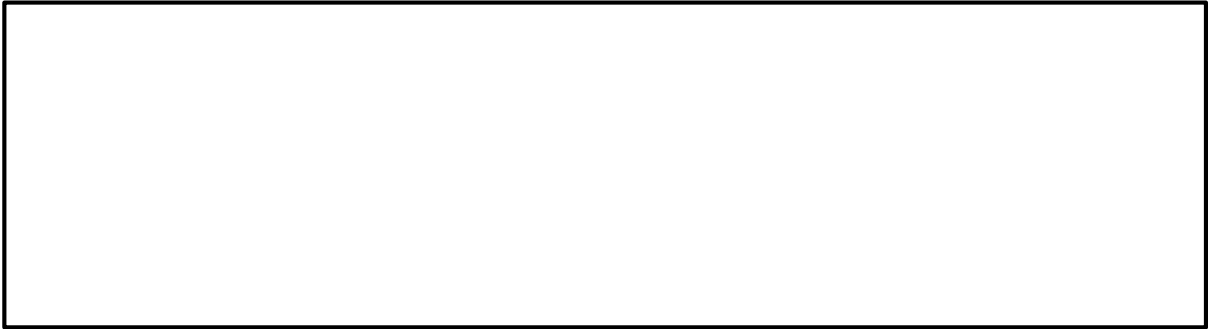
1. Function generator
2. Oscilloscope (two channels)
3. AC Voltmeter
4. Y-0016/02AC module
5. Connection cable

EXPERIMENT:

Adjust the frequency commutator of function generator to "X1K". At that position, if the frequency adjustment potentiometer of function generator is switched from minimum to maximum, it will generate signal between 1KHz and 10KHz. At any frequency of that position, adjust the peak to peak amplitude of output signal to **V_{pp}=10 Volt**. Connect the Y-0016/02AC module to its place. Make the circuit connections as in the Figure.



5. What can be said about the resistance, voltage and current variations of parallel resonance circuit looking at the table?



6. Measure the bandwidth of resonance circuit.

