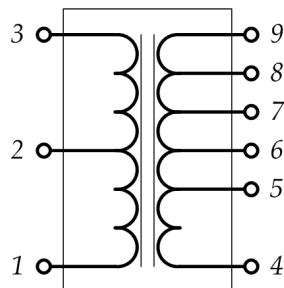


Date: / /

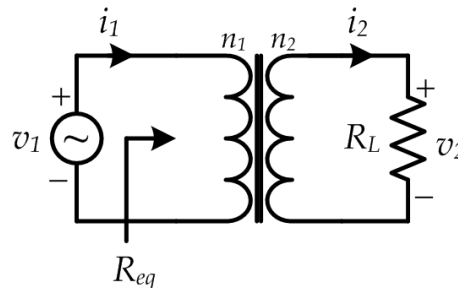
ID	Comp	Name

1. Objectives

1. You will be given a multiple tap transformer. Identify its turn ratios with respect to the multiple taps by select one primary and secondary tap and applying a a sine wave 20V peak to peak voltage at 1 kHz and measure the output
2. Build the circuit shown using the highest transformer turn ratio taps, and measure the currents of both sides of the transformer with $v_1=120V_{RMS}$ sine wave $f=60\text{Hz}$, $R_L=100\Omega$, 15W.



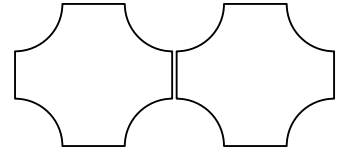
A Multiple Tap Transformer



Transformer Circuit

2. Equipment

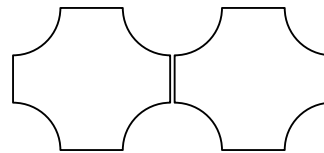
- | | |
|---|-------|
| <input type="checkbox"/> DC Supply | Qty = |
| <input type="checkbox"/> Function Generator | Qty = |
| <input type="checkbox"/> Digital Multimeter | Qty = |
| <input type="checkbox"/> Oscilloscope | Qty = |
| <input type="checkbox"/> Other: | |



3. Experiment Steps

Experiment (1.1):

Experiment (1.2):



4. Results

Experiment (1.1)

<i>Primary Side</i>	<i>Secondary Side</i>	<i>Turn Ratio</i>
1:2	4:5	:
1:2	4:6	:
:	:7	:
:	:8	:
:	:9	:

Experiment (1.2)

chosen turn ratio =

	<i>Theoretical</i>	<i>Measurement</i>	<i>Error (%)</i>
V_1 (RMS)			
V_2 (RMS)			
I_1 (RMS)			
I_2 (RMS)			
R_{eq}			

5. Remarks

<div></div>
