EE2112- Lab 1 Submission Sheet

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Laboratory Section: Lo 2
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Date of submission:

Resistance Measurements

1. Fill in Table 1 and state whether each resistor meets the manufacturer's tolerance specification. Give the reason why your fingers can't touch the resistor when measuring it. (40 pts)

Table 1: Resistance Measurements (Color Codes, Measurements, and Percent Error) [Table 1 of the lab manual]

Nominal Value	Color Code	Nominal Tolerance(%)	Measured Resistance	Percent of Error (%)	Within Manufacturer's
1,541	Br gr Rs Gold	5%	1. YTUKA	0,4%	405
22 K-12	POROR GOLD	57.	2,161KA	1,40%	Jul 5
3.3162	or a 12 904	5/.	3.276 KA	Co 30%	445
42KA	120 mm Liver 12 46	\$ 57	C 642r	1 23/	405

You is parallel with The Resister Charles Been

TA's initials:

Voltage and Current Measurements for Single-Resistor Circuit

2. Fill in Table 2 in your data sheet and compare your measured and calculated values of I and V. How does the value of V/I compare to the value you measured in Table 1? Give reasons for the similarities or differences on your data collection report. Justify your answer. (10 pts)

Table 2: Voltage and Current Measurements for Single-Resistor Circuit [Table 3 of the lab manual]

Vs(V)	V _{R1} (V)	IR1 (mA)	$\frac{V}{I}$ (k Ω)	Voc(V)	Ioc(mA)
8 🦈	8	1.72	4. F5#	8	0

TA's initials:

09/10/12

Voltage and Current Measurements for Four-Resistor Circuit

3. Theoretically in Fig. 14 which two resistors should have the same current through them? Why? (10 pts)

Resissons are is series

4. Fill in Table 3 in your data collection report. (40 pts)

Table 3: Voltage and Current Measurements for Four-Resistor Circuit [Table 5 of the lab manual]

R (kΩ)	V _R (V)	IR(mA)	$\frac{V_R}{I_R}$ $(k\Omega)$	Percent of Error%
1. 5	3.728	1 V	0.45	0 = 4%
4.7	6.273	1.351	4.643	1.21%
22	2. 489	1.147	2, 170	4.36%
3.3	3.784	1.157	3. 247	6,03%

TA's initials:

09/10/19