UM-SJTU Physics Laboratory Vp241 Data Sheet (Exercise 5)

Name: 7 3.4.6

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Group: ___17

Date: Nov. 22

NOTICE. Please remember to show the data sheet to your instructor before leaving the laboratory. The data sheet will not be accepted if the data are recorded with pencil or modified by correction fluid/tape. If a mistake is made in recording a datum item, cancel the wrong value by drawing a fine line through it, record the correct value legibly, and ask your instructor to confirm the correction. Please remember to take a record of the precision of the instruments used.

You are required to hand in the original data with your lab report, so please keep the data sheet properly.

Table 1. $T_{1/2}$ measurement data for a RC series circuit.

 $\frac{R[\sigma R[\Omega] \pm 0.01 [\Omega]; f \pm 0.001 [Hz] \pm 0.001 [Hz], \mathcal{E}_{1.000}[V_{0}] \pm 0.001 [V_{0}]}{L 0.01 [H] \pm 0 [H]} = \frac{T_{1/2} 72.00 [us] \pm 0.01 [us]}{T_{1/2} 72.00 [us]}$

Table 2. $T_{1/2}$ measurement data for a RL series circuit.

Table 3. $T_{1/2}$ measurement data for a critically damped RLC series circuit.

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	- 12	lunt 99182
R	D + 000 D);	LOS [H] + 0 [H], C = WF + ovol [n]
	J05000 10	± 0,001 [12], E=1,000 [12] ± 0,001 [12]
	UR (VP) ± 0.02/ (V)	f [Hz] ± 0.00/ Hz
1	0.920	2500,000
2	tore	מינט, טיסט צ
3	164	3500,000
4	2,342,04	3800 ,000,000
5	2,86 2,48	4/00 4300,000
6	₹ 2.86	43004600,000
7	3,22	400,000
8	3,58	4700,000
9	3,70	480V. OV
10	3,76	4900,000
11	3.80	وره موروع
12	€,78	7/00.000
13	3.74	\$200,000
14	3,66	4300,000
15	3.38	למם, נמפלץ.
16	3,12	57,000
17	2,80	1900,000
18	2,42	6200,000
19	2114	6500,000
20	1,78	7000,000
21	1,50	7500,000

7000

Table 4. Measurement data for the U_R vs. f dependence for a RLC resonant circuit.

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