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

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.

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

$L_{0.01}[H] \pm 0.001[H],$	$C_{126.46}[n7]\pm 0.01[n7], \mathcal{E}_{4.000}[V_{P}]\pm 0.00[V_{P}], f_{1.000000}[kHz]\pm 0.0000[kHz]$
$\beta t = 1.68$	$T_{1/2}=$ $\underline{\hspace{1cm}}$

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

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$\boxed{R_{ \Theta O } [\mathcal{N}] \pm [\mathcal{N}], L_{ O , O } [H] \pm (H], C_{ H } [n P] \pm [n P] } }$		
f_{0} 고기에 kH를 \pm $0.00000[kHz], \mathcal{E} \psi eeo [Vp]\pm 0.001[Vp]$		
	$U_R \left[\underline{V} \right] \pm \underline{o.ool} \left[\underline{V} \right]$	$f\left[rac{kHz}{k} ight] \pm o.eoved\left[rac{kHz}{k} ight].$
1	1、767	1. 000 000
2	1.933	1. 100000
3	2.167	1- 200000
4	2.333	1-300000
5	2.567	1.400000
6	2.833	00000 Z . J
7	3.067	1.60000
8	3. 233	1.70000
9	3.467	1. 80000
10	3.733	1- 90000
11	3.967	2.000000
12	4.100	2 00 000
13	4.167	2.200000
14	4.233	2-300000
15	4.167	240000
16	4.033	S 200000
17	3. 900	2.60000
18	3.733	270000
19	3.66 7	2.80000
20	3.46 ₹	2.9 00 00 0
21	3. 333	3.000000

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

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