UM-SJTU PHYSICS LABORATORY VP241 DATA SHEET (EXERCISE 5)

Name: _ 图新知

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Group: 8

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.

$R \stackrel{\mathbf{99.bl}}{} \stackrel{1}{} \stackrel{1}{} \pm 0.01 [1]$	f t
C_{101} $+ 0.01$ nF	$T_{1/2}$ 7.000 [MS] ± 0.001 [MS]

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

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

	,0°° 000,
L_0,01 [H] ±_	0 [H], C 10[] nF] ± 3.01 [nF], E 1,000 [Vzp] ± 0.00] [Vp] of 100. [KH] ± 0.00[H]
$\beta t = 1.68$	$T_{1/2} = 1 \omega . 00 \left[\mu s \right] \pm 0.0 \left[\mu s \right]$

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

Instructor's signature:

2	$R_{\underline{q}}$	$\frac{1}{2} \left[\Omega \right] \pm \underline{0.01} \left[\Omega \right], \ \underline{L} \underline{0.0} \left[H \right]$		[nf] ± 0.01 [nf]
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$], & 1,000 [Jpp] ±0.001	VPP
1		UR [Vp ± 0.00 Vp		17
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19 v. 392 20 v. 340 20000				
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0.54				19-00000
21 21 3000	21			7.00000

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

