Date Temp Pressure Class Group No. Name Grade

Lab 35 RLC Series Resonance

Date	Temp	Pressure	Class	Group	No.	Name	Grade	
Date		1 icssuic	Class	Group	110.	Ivanic	Grade	

Lab 35 RLC Series Resonance

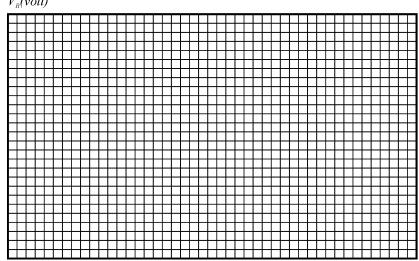
 $R = 100 \ \Omega$, $C = 0.047 \ \mu F$, $L = 10 \ \text{mH}$

Resonance	Measurement	Theoretical Value	Percentage		
Frequency	Value		Error		
f_0					

f	f_0	-500	-1000	-1500	-2000	-2500	-3000	-3500	-4000	-4500	-5000
V_R											

f	f_0	+500	+1000	+1500	+2000	+2500	+3000	+3500	+4000	+4500	+5000
V_R											

 $V_{R}(volt)$



$V_{ m max}$	$V_{ m max}$ / $\sqrt{2}$	f_1	f_2	Δf	Q_0 Measurement Theoretical Value Value		Percentage Error

Theoretical Value
$$Q_0 = \frac{1}{R} \sqrt{\frac{L}{C}}$$

Measurement Value
$$Q_0 = \frac{f_0}{\Delta f}$$