Expirement 9:

UPLOADED BY AHMAD JUNDI



· Def:- Resonance is a phenomen that occures when the Reactanice of the capacitor & inductor is the same  $\begin{array}{c} X_L = X_C \\ \omega L = \frac{1}{\omega C} \end{array}$ pso ( MAR > W = 1 banel of - 62-61 = band width Quality factor) Resonance · A measure of the sharpness of the Curve (expirementally)  $\rightarrow Q = \frac{f_0}{\Delta f}$ (Theoritically) >9 = tr 15

UPLOADED BY AHMAD JUNDI What we use -· L, C, R signal Generator 2 D80 Samer L. Pro cedure :-· Connect this CirCuit: Using R once as R=1K2 and Then as R=2K2 · Read the voltage values from the Dso when Dso R changing the frequency . · Calculate To By dividing each value on R (R, 2142, R, 2242) · plot Iors & II R21KR · 1. = ressonant · قَم وصل الداء كما هو موجزع كست توكر فيم R : - 2XI في 2XX . فم يقراده هم ۷ مه محل عندكل مخرَّه د كم · هم كبسل الشار دهتيت هم ٧على R · 100 Jos Clear Qc of

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