

Exp. No. :

Date :

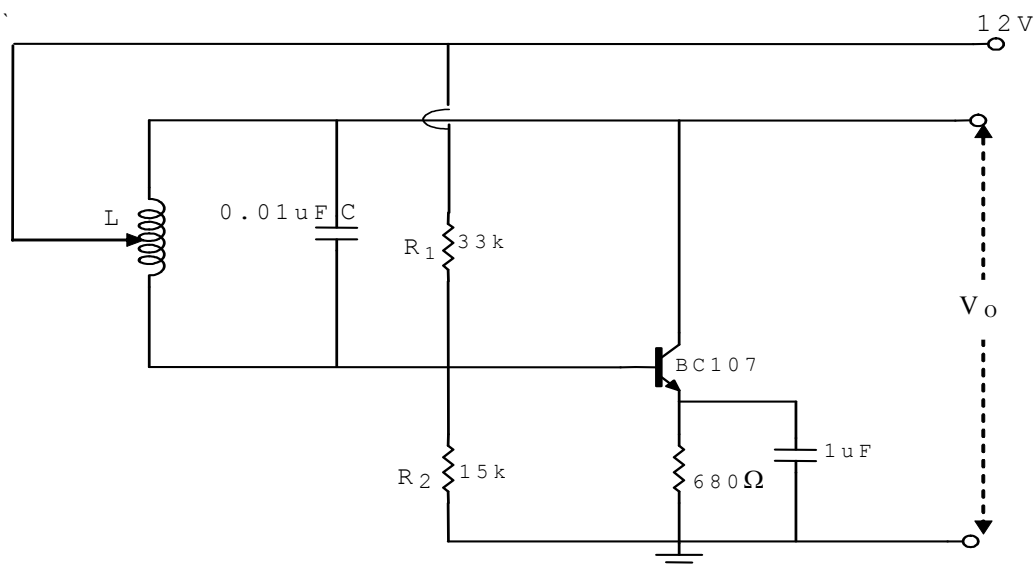
HARTLEY OSCILLATOR

AIM: To obtain the frequency of the Hartley oscillator.

APPARATUS :

S.No.	Name of the Apparatus	Range	Quantity
1.	SL100	-	1No.
2.	Power Supply	0-30V	1No.
3.	Resistors (Ω)	33K, 15K & 680	Each 1No.
4.	Capacitor	0.01 μ F & 1 μ F	Each 1No.
5.	Inductor	50 μ H	1No.
6.	CRO	-	1No.

CIRCUIT DIAGRAM:

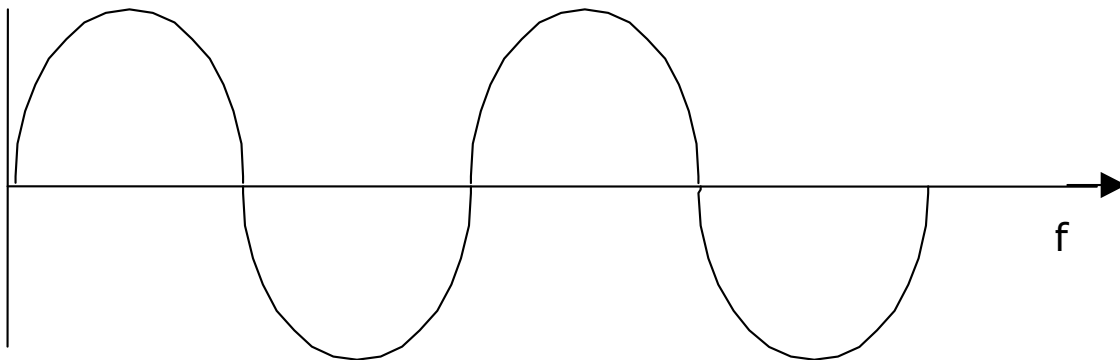


PROCEDURE:

1. Connect the circuit as shown in figure.
2. Set $V_{CC}=12V$.
3. Measure the frequency from CRO

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Model Waveform:**Calculations:**

Theoretical frequency $f_0 = \frac{1}{2 \pi \sqrt{C L_{eq}}} =$

where $L = L_1 + L_2 = 50 \mu\text{H}$

Results:

Theoretical frequency =

Practical frequency =