Procedure

- (1) Connect the inductance in parallel with a capacitance of giv n value.
- (2) Connect this resonance circuit across x and y of the test setup, refer to schematic diagram.
- (3) Vary oscillator frequency and observe carefully the point of maximum reading on V.T.V.M.
- (4) Note frequency at this point on frequency counter; proceed only if noted frequency is lower than specified f_r . (If f_r is higher than specified, the inductance has to be replaced. Begin with new inductance at step (1) above.)
- (5) Proceed to remove turns from inductance, re-checking f_r carefully after each operation as in step (3).
- (6) Continue to remove turns, fewer at a time, as f_r approaches the specified value.
- (7) Terminate the operation as soon as f_r of the inductance under test has been brought to within specified tolerance of nominal resonance value shown on coil drawing.
- (8) Complete the adjustment process by equipping the inductance with terminal strip and by soldering wire ends to terminal posts.
- (9) In the case that inductance and capacitance under test are to be used as a unit, mark both clearly as being a set and tag them securely together. Do not separate inductance and capacitance hereafter.

NOTE:

Capacitanc , f_r and additional items ar listed in assembly drawing where reference to this specification is made.

DATE 5/19/54 SH. 1 OF 2	TMC SPECIFICATION NO.	S- 206
COMPILED BY	TITLE: Resonance Method (Toroidal Inductances)	JOB
APPROVED VZ	A. J. J.	

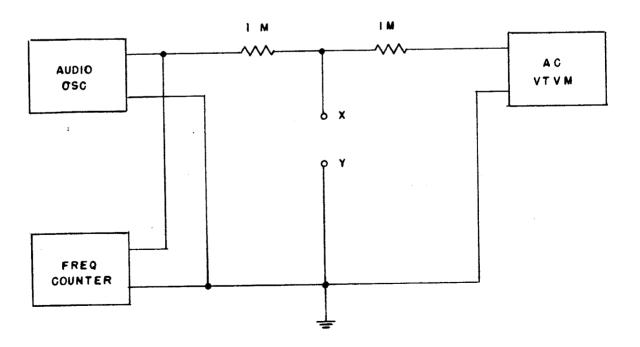
Purpose

For a given resonance frequency, fr, and for a given capacitanc there is only one value of inductance that will provide resonance. The method outlined serves this very purpose of precise adjustment of toroidal inductances.

Instruments Used

- (1) Audio Oscillator, Hewlett Packard HP 2000 or Heathkit AG 8
- (2) AC-V.T.V.M., Daven or Heathkit
- (3) Resistors (2), 1 meg.
- (4) Berkeley Frequency Counter, Model 5500 or 5558

Test Set-Up



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