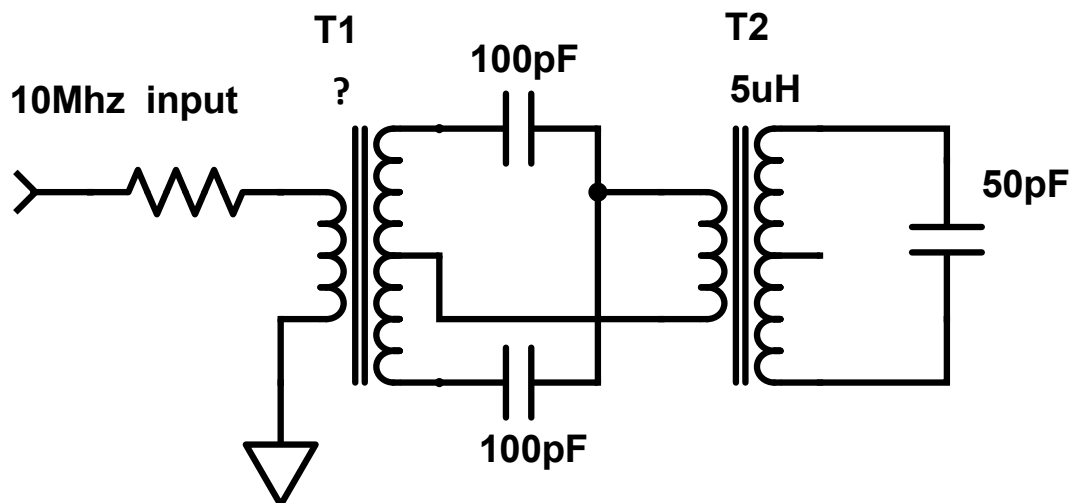


An IF can (T1) used in this configuration needs the core slug of T1 to set the value of the inductor at c. 5uH, for resonance at 10MHz.



The primary of a second identical IF can (T2) is added between the centre tap of T1 secondary, and the junction of the 2 x 100pF capacitors....
T2 secondary is also loaded with a second 50pF capacitor - so that the T2 core slug will also be need to be adjusted to set T2 at resonance.

This extra load added will require that the core slug of T1 needs to be re-adjusted to reset T1 at resonance.

Question - what is the new value of the inductance of T1 required to meet this new resonance setting?....

I have built the actual circuit as part of this project: www.amx.jp137.com - so I know it actually works - but the maths involved in this calculation are way above my pay grade ! ...

Can anyone help out with advising on how to calculate the new value of the T1 resonant inductance?