

ABSTRACT

Right now, there just a few of inductor L and capacitor C indicator device in STTTelkom elektronik laboratory, this case become a basic idea to designed and implemented indicator based on PC, in addition, inductor and capacitor component had been very usefull in many purpose in electronic practical work, furthermore inductor and capacitor measurable are require to indicate inductor and capacitor value, approaching real value at practical work.

Misindicate measurement is a proper, as long as that value is in tolerance boundary. The expected point for error tolerance from this indicator should be 10% below. To indicate inductor and capacitor value, limited range is use which can indicate by this device measurement . Limited range for inductor is about 11mH s/d 10^5 H and for capacitor is about 1pF - 470nF.

Constructing this indicator, absolutely there must be a problems, which are :

Hardware

- Osilator designing depended on L or C value.
- Interface between indicator and computer.

Software

- aplication delphi programing to read data from indicator.

The Output from this indicator, such as L-C meter based on computer which value range for both indicator are between, induktor 11mH s/d 10^5 H and capacitor 1pF - 470nF for expected error tolerance point 10% below .