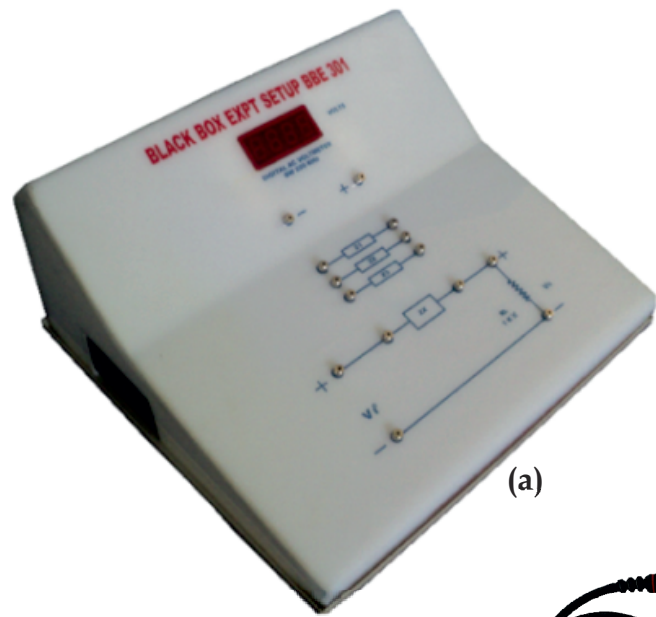


Experiment(s):

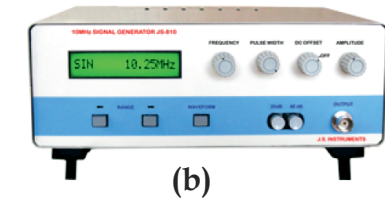
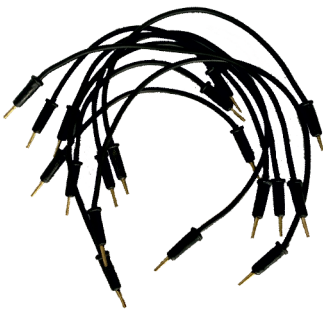
1. Identification of unknown components by seeing its AC response
2. Determination of the values of the components (Inductor, capacitor & resistor)

(For more details, procedure & manual visit: www.kamaljeeth.net)

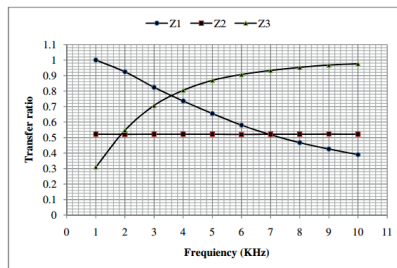
Reference : Lab Experiments Journal vol-14, No.3, Page-167



(a)



(b)



Variation of transfer ratios of different components v/s frequencies

Experiment setup consists:

- a) Black box kit
- b) Signal generator

Specifications:

a) Black box kit

Unknown components: Inductance, capacitor and resistor

Meter: Digital wide band AC voltmeter

Display: Digital AC 3½ digit, LED

Range: 20 V

Resolution: 0.1 V

Rated Input: 220 V/50 Hz or 110 V/60 Hz

Power consumption: <50 W

Cabinet: Acrylic body, aluminium bottom

Patch cords

Set of standard 2mm patch cords of different lengths with spare cords

b) Signal generator

Frequency: 1 Hz to 1 MHz

Display: Frequency & waveform

Rated Input: 220 V/50 Hz or 110 V/60 Hz

Power consumption: <30 W

Amplitude: 0 to 20 V variable

Waveforms: Sine, square and triangular

