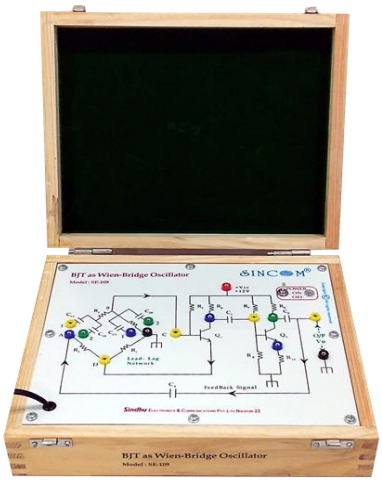
Wein Bridge Oscillator

Model : SE-109



SINCOM SE-109 Wein Bridge Oscillator is a useful trainer to study the concept and operation of Wein Bridge Oscillator with RC lead-lag positive feedback to generate AF Output Frequency using BJT with facility to select multiple audio frequencies in a simple experimental way.

Features

- Two stage BJT Transistor based RC coupled self bias CE Amplifier with RC lead-lag Feedback network.
- RC Lead Lag Network as Feedback components
- Two sets of RC lead-lag Network to provide Two output frequency in AF range.
- Facility to select the two output frequencies.
- In-Built Fixed regulated DC Power Supply
- User friendly Design
- Very Easy for Operation
- Multi color Circuit Diagram is printed on the front panel of the white board
- Enclosed in an attractive, light weight, High Quality, Poly Coated Imported Pine Wooden cabinet
- Facility to connect external Oscilloscope and Digital Meters.
- Interconnections by 2mm high quality banana sockets and pins
- Maximum Test points to explore all the corners of experiment
- 1 Year Warranty

Technical Specifications

AC Mains Power Supply	: 230V ±10%, 50Hz
DC Power Supply	: IC Regulated Fixed +12V/300mA
Transistor Type and Package	: Two BJT Silicon-NPN BC548, TO-92 Package
Amplifier Type	: BJT Two Stage RC Coupled CE Amplifier in Self Bias mode
Feedback Type	: Positive
Feedback Elements	: RC lead lag network
Output Control	: By two RC Networks
Output Frequencies	: Two Audio Frequency output in Hz.
Max. Collector Emitter Voltage	: 12 VDC

- Weight : 2.0 kg (approx)
- Dimensions (mm) : L 220 x W 270 x H 110
- Interconnections : 2mm Banana sockets
- Operating Temperature : 0-50^{0}C, 80% RH

Learning Scope

- To Study operation of Wein Bridge Oscillator Circuit.
- To Determine the Quiescent Operating Point of Transistor.
- To Observe & Note Change in Frequency of Oscillation w.r.t. change in feedback elements.
- Compare the Theoretical & Practical values.

Other Instruments Required : Digital Multimeter and Oscilloscope

Accessories Included : Set of Patch Cord and Details Instruction Manual.

Subject to Change