

## RC Phase Shift Oscillator

**Model : SE-108**



**SINCOM SE-108 RC Phase Shift Oscillator** is a useful trainer to study the concept and operation of RC Phase Shift Oscillator with RC positive feedback to generate AF Output Frequency using BJT with facility to select multiple audio frequencies in a simple experimental way.

### Features

- ❖ BJT Transistor circuit of a Fixed base bias CE Amplifier mode with RC Feedback elements.
- ❖ Three RC Network as Feedback components
- ❖ RC Network Bank 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	: $230V \pm 10\%$ , 50Hz
▪ DC Power Supply	: IC Regulated Fixed $+12V/300mA$
▪ Transistor Type and Package	: BJT Silicon-NPN BC548, TO-92 Package
▪ Amplifier Type	: BJT Single Stage CE Amplifier in a Fixed Base Bias mode
▪ Feedback Type	: Positive
▪ Feedback Elements	: RC Network of three Resistors and three Capacitors
▪ Output Control	: By two RC Networks
▪ Output Frequencies	: Two Audio Frequency output in Hz.



An ISO 9001:2015 Co.

▪ 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°C, 80% RH

### Learning Scope

- To Study operation of RC Phase Shift 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.