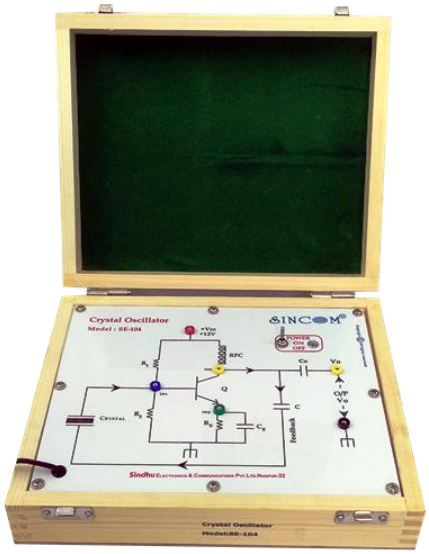
Crystal Oscillator

Model : SE-104



SINCOM SE-104 Crystal Oscillator is a useful trainer to study the concept and operation of Crystal Oscillator with Crystal positive feedback to generate RF Output Frequency using BJT in a simple experimental way.

Features

- BJT Transistor circuit of a self bias CE Amplifier mode with Crystal Feedback elements.
- Crystal of 3.2768MHZ as a feedback components
- Fixed Crystal output frequency
- 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	: BJT Silicon-NPN BC548, TO-92 Package
Amplifier Type	: BJT Single Stage CE Amplifier in a Self Bias mode
Feedback Type	: Positive
Feedback Elements	: Crystal
Crystal Frequency	: 3.2768 MHz
Output Frequency	: RF O/P 3.2768 MHz

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- 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 Crystal 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.