Armstrong Oscillator

Model : SE-107

SINCOM SE-107 Armstrong Oscillator (Meissner Oscillator) is a useful trainer to study the concept and operation of Armstrong Oscillator with LC positive feedback to generate RF Output Frequency using BJT with facility to select multiple radio frequencies in a simple experimental way.

Features

- BJT Transistor circuit of a self bias CE Amplifier mode with LC Feedback elements.
- Two Inductor and Two Capacitors Feedback components
- Capacitor Bank to provide Two output frequency in RF 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	: BJT Silicon-NPN BC548, TO-92 Package
Amplifier Type	: BJT Single Stage CE Amplifier in a Self Bias mode
Feedback Type	: Positive
Feedback Elements	: Two Inductors and Two Capacitors
Output Control	: By two capacitors
Output Frequencies	: Two RF O/Ps in MHz
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 Armstrong 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

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