



An ISO 9001:2015 Co.

Sawtooth Generator

Model : SE-128

SINCOM SE-128 Sawtooth Generator is a useful trainer to study the concept and operation of sawtooth wave generator using transistor with different resistors and capacitor bank to produce variable frequency outputs in a simple experimental way.

Features

- ❖ NPN Transistor as CE switching Amplifier with resistive capacitive feedback elements.
- ❖ Resistive load
- ❖ Wide range of sawtooth oscillation frequency
- ❖ Facility to vary output frequency
- ❖ Silicon NPN BJT of TO-92 package on board
- ❖ 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 acrylic board
- ❖ Enclosed in an attractive, light weight, High Quality, Poly Coated Imported Pine Wooden cabinet
- ❖ Facility to connect external function generator, 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

▪ DC Power Supply	: IC Regulated Fixed +12V/300mA
▪ Transistor Type and Package	: BJT Silicon NPN BC548, TO-92 Package
▪ Amplifier Type	: Base Biased CE Switching Amplifier
▪ Feedback Elements	: Resistors and Capacitors
▪ Load	: Resistive load 10KΩ
▪ Output waveform	: Sawtooth
▪ Output Frequency	: Variable from @ 100 Hz to 100KHz
▪ Output Frequency Control by	: Resistors and Capacitors
▪ Max. Collector Emitter Voltage	: 12 VDC
▪ AC Mains Power Supply	: 230V ±10%, 50Hz
▪ 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 Sawtooth wave generator circuit.
- To Observe & Note Change in Frequency w.r.t. change in RC Components.

Other Instruments Required : Oscilloscope

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