



An ISO 9001:2015 Co.

Boot-Strap Sweep Generator

Model : SE-127

SINCOM SE-127 Boot-strap Sweep Generator is a useful trainer with two NPN Transistors in CE mode wired as to produce Boot-strap voltage time base generator sweep Output for the applied trigger Input signals in a simple experimental way.

Features

- ❖ Silicon NPN BJT of TO-92 package on board
- ❖ Two NPN Transistors BC548 in CE mode wired with resistors, inductors and capacitors to produce Voltage Time Base Generator (Sweep) outputs using Boot-Strap method.
- ❖ Resistive load
- ❖ Wide range of Voltage Time base Sweep output
- ❖ Facility to connect square wave Input signal
- ❖ 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	: Two BJT Silicon NPN BC548, TO-92 Package
▪ Amplifier Type	: CE Switching Amplifier
▪ Feedback Elements	: RLC network
▪ External Trigger Input	: Square Input
▪ Collector load	: Resistive load of 10KΩ
▪ Output waveform	: Boot-strap Voltage Time base Sweep signal
▪ 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 transistor Voltage time base (sweep) generator using Boot-Strap method.
- To Observe & Note Sweep time (Ts) & Restoration time TR. To Observe & Note Voltage Time Base (Sweep) waveforms w.r.t. change in Trigger I/P.

Other Instruments Required : Oscilloscope, Function Generator 1MHz and Digital Multimeter.

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