



## Pulse Amplifier

### Model : SD-125

**SINCOM SD-125 Pulse Amplifier** is simply designed trainer for the purpose to study the concept, operation, Frequency response and determine various operational parameters of a Pulse Amplifier in a simple experimental way.

### Features

- ❖ BJT NPN BC548 with Self base biasing in CE mode operates as a Pulse amplifier circuit
- ❖ Silicon NPN BJT of TO-92 package on board
- ❖ Wide Bandwidth AF Amplifier
- ❖ Resistive Collector Load
- ❖ Input and Output Coupling Capacitors
- ❖ 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 Function Generator and Oscilloscope
- ❖ 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/500mA
▪ Amplifier Type	: CE Pulse Amplifier
▪ Transistor Type and Package	: Bi-Polar Silicon-NPN, TO-92 Package
▪ Transistor Used	: BC548
▪ Transistor Configuration	: CE mode
▪ Biasing Method	: Self Bias
▪ BJT Junction Voltage	: 0.7V
▪ Max. Collector Emitter Voltage	: 12 VDC
▪ Emitter Base Voltage $V_{BE}$	: 5V
▪ Base Resistors	: Two No.
▪ Emitter Resistors	: One No.
▪ Input Output Coupling Capacitors	: Two No. Electrolytic type
▪ Collector Load	: 10KΩ Fixed Resistive Load
▪ Input Signal Type	: Square wave
▪ Max. Input Frequency Range	: 100Hz-500KHz approx.
▪ Output Frequency Response	: 100Hz-500KHz approx.
▪ AC Mains Power Supply	: 230V ±10%, 50Hz
▪ Weight	: 2.0 kg (approx)



An ISO 9001:2015 Co.

- Dimensions (mm) : L 220 x W 270 x H 110
- Interconnections : 2mm Banana sockets
- Operating Temperature : 0-50<sup>0</sup>C, 80% RH

### Learning Scope

- To Study Transistor Pulse Amplifier.
- To Observe & Note change in output time period & amplitude w.r.t. change in Square wave I/P Frequency. To Observe & Note the rise time of O/P.

**Other Instruments Required :** Oscilloscope, Function Generator 1MHz.

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