



BJT Amplifiers and Emitter follower Trainer is a unique product designed to explain the role of BJT's as single-stage/multistage RC-coupled amplifiers and as common collector emitter followers.

One of the common method for coupling two stages of an amplifier is RC-coupling. RC-coupled amplifiers have the advantage of wide frequency response and relatively small cost and size. Darlington transistors are circuits that combine two bipolar transistors in a single device such that high current gain ( $\beta$ ) is obtained and lesser space is required than that used by two discrete transistors.

Is useful for students in plotting the frequency vs. Gain response of BJTs and in the measurement of parameters such as Bandwidth, Input Impedance etc.

### Scope of Learning

- Study of the working principle of Differential Amplifier
- Study of the working principle of class B push-pull Amplifier

### Features :

- Easy illustration of multistage amplifier and emitter follower
- In-built sine wave generator with variable frequency and amplitude
- In- built DC power supply

### Technical Specifications

**DC power supply** : +12 V, +5 V

**Fuse** : 500 mA, slow blow

### Sine wave generator

**Frequency** : 10 Hz - 100 KHz  $\pm 10\%$

**Amplitude** : 0 to 5 Vpp

**Mains supply** : 230 V  $\pm 10\%$ , 50

Note: Specifications are subject to change.

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