

Product Name :
Discrete Component Trainer

Product Code :
NLAB-ELECTRONICSAB200017



Description :

Discrete Component Trainer

Technical Specification :

Experimental Training Board has been designed specifically for the study of Discrete Electronic Components. It contains a wide selection of discrete components and A.C. & D.C. Power Supplies. The capabilities of this trainer extend far beyond the experiments described. Although only a finite number of experiments have been described yet other circuits as per individuals requirements can also be designed using the available components and power supplies.

Practical experience on this board carries great educative value for Science and Engineering Students.

Object

RC & LC CIRCUITS :

01. Study of RC High Pass Filter

02. Study of RC Low Pass Filter

03. Study of RL Differentiating Circuits

04. Study of Series RC Circuit

05. Study of Series LC Circuit

06. Study of Parallel RC Circuit

07. Study of Parallel LC Circuit

Features:

The board consists of the following built in parts :

01. 4V5-0-4V5 A.C. at 500 mA, Power Supply.

02. 0-5VA.C. at 50mA, Power Supply.

03. 0-70V D.C. at 50 mA, continuously variable Power Supply.

04. $\pm 12V$ D.C. at 250 mA, IC regulated and short circuit protected Power Supply.

05. 0-20V D.C. at 50 mA, IC Regulated Power Supply.

06. 5V D.C. at 100mA, IC Regulated Power Supply.

07. A.C. / D.C. Voltmeter, 65mm rectangular dial, with switch selectable ranges of 1V, 10V and 100V.

08. Two D.C. Ammeters, 65mm rectangular dial, with switch selectable ranges of 50 mA/500mA/5mA/50mA/500mA.

09. Pulser with Dual Polarity, selectable output.

10. 1 KHz Sine wave source with variable output level.

11. LEDs for visual indication of Input & Output status.

12. Speaker, LED, 8 diodes, 5 Zener diodes, Diac, SCR, Triac, 2 FET, UJT, 7 Transistors, 1 matched transistor pair, 67 resistors, 27 capacitors,

6 potentiometers, Electronic Load, indicator, Audio Transformer.

13. 12 V, OEN Relay with one change over contacts rated at 6 Amp. for resistive and 3 Amp. for inductive Load at 230V.

14. Mains ON/OFF switch, fuse and Neon Indicator are provided.

The unit is operative on 230V $\pm 10\%$ at 50Hz A.C. Mains.

Adequate no. of patch cords stackable from rear both ends 2mm spring loaded plug length metre.

XIII. Rods for Ground Plane Antenna

1. 6.9cm : 1 no.
2. 8.5cm : 1 no.
3. 20.5cm : 1 no.

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