OMEGA®

A SIGN OF QUALITY PRODUCT

TRANSISTOR SERIES AND SHUNT VOLTAGE REGULATED POWER SUPPLIES

OMEGA TYPE ETB-108

OMEGA TYPE ETB-108 Experimental Training Board has been designed specifically for the study of transistorised series and shunt voltage regulated power supplies. Apart from series and shunt circuits, the current limiting and variable voltage techniques are also included. The board is absolutely self contained and requires no other apparatus.

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

OBJECT

01 To study a transistor-shunt voltage regulator with fixed current limiting.
02 To study a transistor-shunt variable regulator with fixed current limiting.
03 To study a transistor-shunt voltage regulator with variable current limiting.
04 To study a transistor-series variable voltage regulator.
05 To study a transistor-series voltage regulator.
06 To study a transistor-series voltage regulator with fixed current limiting.
07 Measurement of Line Regulation

FEATURES

The board consists of following built-in parts :

01 12.5V D.C. ± 10% at 50mA, unregulated Power Supply.
02 Digital Voltmeter DC 3½ Digit Having range of 0- 20V.
03 Digital Current meter DC 3½ Digit Having range of 0- 200mA
04 Two NPN and one PNP medium current transistors.
05 Zener diode.
06 Two wire wound potentiometers and one carbon potentiometer.
07 Adequate no. of other electronic components.
08 Mains ON/OFF switch, Fuse and Jewel light.
09 The unit is operative on 230VAC ±10% at 50Hz.
10 Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length 50cm.
11 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/ observation of waveforms.
12 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
13 Weight : 2.500 Kg. (Approx.)
14 Dimension : W340 x H125 x D210

OMEGA ELECTRONICS

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