OMEGA®

A SIGN OF QUALITY PRODUCT

PULSE AMPLITUDE MODULATION AND DEMODULATION (PAM)

OMEGA TYPE ETB-112

OMEGA TYPE ETB-112 Experimental Training Board has been designed specifically for the study of Pulse Amplitude Modulation & Demodulation. Using this training board one can know the specialized techniques of Pulse Amplitude Modulation and Demodulation.

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

OBJECT

01 To demonstrate sampling of a sine wave audio signal thereby converting it into Pulse Amplitude Modulated Signal (PAM).
02 To demonstrate demodulation of PAM signal thereby recovering the sine wave audio signal.
03 To demonstrate the effect of sampling-rate on the distortion in recovered sine wave audio signal.

FEATURES

The board consists of the following built-in parts:

01 ±9V D.C. at 100mA, IC regulated Power Supply internally connected.
02 Variable frequency sampling pulse generator.
03 Sine wave audio frequency modulating signal generator.
04 PAM Modulator circuit based on an operational amplifier.
05 PAM Demodulator circuit based on a point contact diode and an operational amplifier.
06 Adequate no. of other electronic components.
07 Mains ON/OFF switch, Fuse and Jewel light.
08 The unit is operative on 230VAC ±10% at 50Hz.
09 Adequate no. of patch cords stackable from rear both ends 2mm spring loaded plug length 50cm.
10 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/ observation of waveforms.
11 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
12 Weight : 2.00 Kg. (Approx.)
13 Dimension : W 340 x H 125 x D 210

LIST OF ACCESSORIES:

01 Patch cords 4mm length 50cm Red.....03

OTHER APPARATUS REQUIRED :

01 Dual trace CRO 20MHz OMEGA TYPE CRO-20.

OMEGA ELECTRONICS

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